Course Catalog 2009-2011



www.rockvalleycollege.edu

WELCOME

On behalf of the Board of Trustees, faculty, and staff, we are pleased to assist you in learning more about our institution and help you make decisions regarding your future education.



For over 40 years, Rock Valley College has been serving the region as our community's college. We are proud to continue in this role, whether your plans include a certificate, an associates degree, or perhaps just a few classes to better identify your interests. I invite you to visit our campus soon and to stop in the Student Center to meet with advisors and financial aid professionals. All of these folks are uniquely qualified to help you assess your needs, direction, and best path for meeting your goals. You'll find very helpful people who understand your questions and are happy to assist you in any way.

If you cannot get to campus soon, please visit our web site and take the virtual tour. Many questions can also be answered through this venue, and I believe you will find it to be a very useful tool and easy to navigate. Rock Valley College's vision is to "make a difference through teaching, learning, and leading." We take this statement very seriously, as you will see in our instruction, staff, programs, and facilities. The quality of education and services you will receive at Rock Valley College is exceptional, and we are proud that you would consider letting us serve you.

We look forward to seeing you on campus soon!

Sincerely,

Secherer

Jack J. Becherer, Ed.D. President

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Rock Valley College 3301 N. Mulford Rd. Rockford, IL 61114-5699 Phone (Toll-Free) (800) 973-7821 Main Switchboard (815) 921-7821

www.rockvalleycollege.edu



VISION • MISSION • CORE VALUES • LEARNING OUTCOMES

Vision Statement

As our community's college, we make a difference through teaching, learning, and leading.

Mission Statement

Rock Valley College is an educational leader in providing quality, accessible, lifelong learning opportunities, cultural enrichment, and support for economic and technological development.

We accomplish our mission by providing the highest quality programs and services to:

- Prepare our students for ...
 - successful transfer
 - competitive employment
 - professional and personal growth
- Foster innovative, collaborative relationships
 - to advance...
 - a seamless educational system
 - an appreciation of the arts
 - economic and technological development
- Provide leadership in developing a nurturing culture that...
 - values learning
 - honors and respects each individual
 - uses resources responsibly

Accreditation:

Rock Valley College is accredited by The Higher Learning Commission and is a member of the North Central Association.

Core Values

Learner-Centered Community We are dedicated to providing lifelong learning opportunities that foster student success.

Mutual Respect

At all times, we uphold the dignity of each individual by being ethical, respectful, fair, and courteous in our communication and actions.

Excellence

By setting high expectations, we promote excellence in teaching and learning. We are service-centered and hold ourselves and each other accountable.

Diversity

We promote, celebrate, and accept diversity, including cultural and ethnic diversity, diversity of thought, and diverse views of others.

Collaboration

We value working together and with the community in innovative, enriching partnerships.

Innovation

We anticipate change and explore creative approaches to address the future.

Public Trust

We honor the trust placed in us by the public and uphold it through quality service, integrity of actions, and efficient use of resources.

General Education Statement of Philosophy

The General Education Program at Rock Valley College is designed to develop the knowledge, skills, and habits reflected in the lives of educated persons and basic to all professions so that RVC students are capable of leading rewarding and responsible lives as productive, global citizens. The General Education Program offers varied opportunities for students "to develop the breadth of knowledge and the expressive skills essential to more complex and indepth learning throughout life" (adapted from the Illinois Articulation Initiative, 2000). With this philosophy as our focus, our general education courses are designed to help students achieve the following learning outcomes.

Student Learning Outcomes

Rock Valley College is committed to preparing students to:

- Communicate effectively
- Integrate technology into all fields of knowledge and expression
- Demonstrate competency in critical thinking
- Respect and work effectively with persons of diverse backgrounds and abilities
- Demonstrate the behaviors of ethical and socially responsible citizens
- Demonstrate personal wellness

BOARD OF TRUSTEES



Chris Beck



Theodore J. Biondo



Katherine M. Kelley



Ken Nelson



Stephanie Raach, Ph.D.



Randall J. Schaefer

The information in this catalog is subject to change without prior notice or obligation. It is the student's responsibility to be aware of the information in this catalog and to keep informed as additions and corrections are announced.

Rock Valley College accreditation agencies

- Accreditation Review Committee on Education in Surgical Technology (Surgical Technology and Assistant at Surgery programs)
 6 West Dry Creek Circle, Suite 110 Littleton, CO 80120 (303) 694-9262
- American Welding Society (Welding Technology program) Blackhawk Chapter 13 550 NW LeJeune Rd. Miami, FL 33126 (800) 443-9353
- Automotive Service Excellence (Automotive Service Technology program) National Institute for Automotive Service Excellence
 101 Blue Seal Dr., S.E., Suite 101 Leesburg, VA 20175 (703) 669-6600
- Commission on Accreditation of Allied Health Education Programs (CAAHEP) (Respiratory Care and Surgical Technology programs)
 1361 Park St. Clearwater, FL. 33756 (727) 210-2354

- Commission on Dental Accreditation (CODA) (Dental Hygiene program)
 211 E. Chicago Ave., Suite 1900 Chicago, IL 60611 (312) 440-2500
- Committee on Accreditation for Respiratory Care (Respiratory Care program) CoARC 1248 Harwood Rd. Bedford, TX 76021-4244 (817) 283-2835
- Federal Aviation Administration (Aviation Maintenance Technology program) Chicago FSDO (DPA) DuPage Airport 31W775 North Ave. West Chicago, IL 60185 (630) 443-3100
- Illinois Bureau of Apprenticeship Training (Apprenticeship programs) USDOL/ETA/OATELS-BAT 230 S. Dearborn St., Room 656 Chicago, IL 60604 (312) 596-5508
- Illinois Department of Financial and Professional Regulation, Board of Nursing (Nursing program)
 320 W. Washington St. Springfield, IL 62786 (217) 785-0800

- Illinois Department of Public Health (Certified Nursing Aide program) 535 W. Jefferson St. Springfield, IL 62761 (217) 785-5133
- National Automotive Technicians Education Foundation (Automotive Service Technology program) 101 Blue Seal Dr., S.E. Suite 101 Leesburg, VA 20175 (703) 669-6650
- Office of the State Fire Marshall (Fire Science Program) 1035 Stevenson Road Springfield, IL 6703-4259 (217) 782-4542
- The Higher Learning Commission 30 N. LaSalle St., Suite 2400 Chicago, IL 60602-0456 (800) 621-7440
 www.ncahigherlearningcommission.org



Mike Olson



Jack J. Becherer, Ed.D. President

Student Trustees: Michaela Perdue, 2008-2009 Gloria Wiekert, 2009-2010

Memberships

- American Association of Community Colleges One Dupont Circle, NW, Suite 410 Washington, D.C. 20036 (202) 728-0200
- American Council on Education One Dupont Circle, NW Washington, D.C. 20036 (202) 939-9300
- Association of Surgical Technologists (AST) 6 West Dry Creek Circle, Suite 200 Littleton, CO 80120-8031 (800) 637-7433
- Council for Advancement and Support of Education 1307 New York Ave., NW Suite 1000 Washington D. 20005 ٠ Washington, D.C. 20005 (202) 328-2273
- Council of North Central Two Year Colleges c/o Metropolitan Community Colleges of Kansas City-Longview 500 SW Longview Rd. Lee's Summit, MO 64081 (816) 672-2371
- National Board of Surgical Technology and ٠ 6 West Dry Creek Circle, Suite 100 Littleton, CO 80120-8031 (800) 707-0057
- National Organization for Associate Degree Nursing NOADN National Office 7794 Grow Drive Pensacola, FL 32514 (850) 484-6948, (877) 966-6236

Public high schools within the college district

Belvidere, Byron, Durand, Harlem, Hononegah, North Boone, Pecatonica, Rockford Auburn, Rockford East, Rockford Guilford, Rockford Jefferson, South Beloit, Stillman Valley, Winnebago, students living in portions of Oregon's district.

Sexual Harassment Policy Statement

Rock Valley College will not tolerate sexual harassment, regardless of the nature of the harassment, by any employee or student of the college. Any employee or student of the college who practices sexual harassment will be disci-plined in accordance with the college's policies and procedures.

Disclaimer The information in this catalog is subject to change without prior notice or obligation. It is the student's responsibility to be aware of the infor-mation in this catalog and to keep informed as additions and corrections are announced.

ACADEMIC CALENDAR 2009 - 2010

SUMMER 2009 SESSION I - THREE-WEEK SESSION

(10	davs	plus	1	final	dav)
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May 18 (Monday)*	Classes Begin
May 25 (Monday) .	College Closed
June 4 (Thursday)	Final Exams
June 8 (Monday)	Grades Due before
	12 Noon

SUMMER 2009 SESSION II - EIGHT-WEEK SESSION (28 days plus 2 final exam days)

June 8 (Monday)*Classes Begin	
July 1, 2 (Wed, Thurs)No Classes/College Open	
July 3 (Friday)No Classes/College Closed	
July 28 (Tuesday)End of Classes	
July 29, 30 (Wed, Thurs) Final Exams	
August 3 (Monday)Grades Due before	
12 Noon	

SUMMER 2009 SESSION III - FOUR-WEEK SESSION (14 days plus 2 final exam days)

July 6 (Monday)*Classes Begin
July 28 (Tuesday)End of Classes
July 29, 30 (Wed, Thurs)Final Exams
August 3 (Monday)Grades Due before
12 Noon

FALL SEMESTER 2009

August 15 (Saturday)*Weekend Classes Begin
August 17 (Monday)*Weekday Classes Begin
September 5, 6, 7
(Sat, Sun, Mon)No Weekend Classes/ College Closed
September 8 (Tuesday)Staff Development Day/No Classes
November 25 (Wednesday)Fall Recess/No Classes/College Open
November 26, 27 (Thurs, Fri) No Classes/College Closed
November 28, 29 (Sat, Sun)No Classes/College Closed
December 4 (Friday)End of Weekday Classes

December 5, 6 (Sat/Sun) End of Weekend Classes
December 7 - 11 (Mon-Fri)Final Exams for Weekday Classes
December 12, 13 (Sat/Sun)Final Exams for Weekend Classes
December 14 (Monday)Grades due before 12 Noon
December 24 – January 3 No Classes/College Closed

SPRING SEMESTER 2010

January 4 (Monday)	.Offices Open
January 8 (Friday)	.Faculty Development Day/College Open
January 9, 10 (Saturday)*	.Weekend Classes Begin
January 11 (Monday)*	.Weekday Classes Begin
January 18 (Monday)	.No Classes/College Closed
January 19 (Tuesday)	.Staff Development Day/No Classes
March 8 - 14 (Mon-Sun)	.Spring Recess - No Weekday/Weekend Classes
March 15 (Monday)	.Weekday/Weekend Classes Resume
April 2, 3, 4 (Fri, Sat, Sun)	.No Classes/College Closed
May 1, 2 (Sat, Sun)	.End of Weekend Classes
May 7 (Friday)	.End of Weekday Classes
May 8, 10, 11, 12, 13, 14 (Sat, Mon, Tue, Wed,	
Thur, Fri)	.Final Exams for Weekday & Weekend Classes
May 14 (Friday at 6 pm)	.Graduation Exercises
May 17 (Monday)	.Grades Due Before 12 Noon

* Most 16-week classes begin this week. Check class schedule for specific start dates.

Deadlines vary for courses less than 16-weeks in length. Contact Records and Registration for specific dates.

CONTACTS

Department Phone

Advising and Counseling	. (815) 921-4100
Academic	
Academic Affairs	. (815) 921-4009
Accounting	. (815) 921-3101
Adult Education(English as a Second	
Language, GED, ABE)	. (815) 921-2001
Admissions	. (815) 921-4250
Art	. (815) 921-3317
Automotive	. (815) 921-3000
Aviation	. (815) 921-3020
Bookstore	. (815) 921-1680
Business	. (815) 921-3101
Business and Professional Institute	. (815) 921-2071
Business Outreach	. (815) 921-2067
Career Services and Placement	. (815) 921-4091
Center for Learning in Retirement	. (815) 921-3930
Chargebacks/Cooperative Agreements	. (815) 921-4281
Child Care and Development	. (815) 921-3338
Community Education	. (815) 921-3900
Composition and Literature	. (815) 921-3338
Computers and Information Systems	. (815) 921-3101
Continuing Professional Education	. (815) 921-3900
Criminal Justice	. (815) 921-3200
Dental Hygiene	. (815) 921-3235
Disability Services	. (815) 921-2356
v	
Dislocated Workers Program	. (815) 921-2200
Dislocated Workers Program Distance Learning (Online and Telecours	. (815) 921-2200 ses)
Dislocated Workers Program Distance Learning (Online and Telecours www.rockvalleycollege.edu/classes/online	. (815) 921-2200 ses)
Dislocated Workers Program Distance Learning (Online and Telecours www.rockvalleycollege.edu/classes/online EdNet Support Center	. (815) 921-2200 ses) e . (815) 921-4647
Dislocated Workers Program Distance Learning (Online and Telecours www.rockvalleycollege.edu/classes/online EdNet Support Center Education	. (815) 921-2200 ses) e . (815) 921-4647 . (815) 921-3338
Dislocated Workers Program Distance Learning (Online and Telecours www.rockvalleycollege.edu/classes/online EdNet Support Center Education Engineering.	. (815) 921-2200 ses) e . (815) 921-4647 . (815) 921-3338 . (815) 921-3101
Dislocated Workers Program Distance Learning (Online and Telecours www.rockvalleycollege.edu/classes/online EdNet Support Center Education Engineering Enrollment Management.	. (815) 921-2200 ses) e . (815) 921-4647 . (815) 921-3338 . (815) 921-3101 . (815) 921-4268
Dislocated Workers Program Distance Learning (Online and Telecours www.rockvalleycollege.edu/classes/online EdNet Support Center Education Engineering Enrollment Management Financial Aid and Scholarships	. (815) 921-2200 ses) e . (815) 921-4647 . (815) 921-3338 . (815) 921-3101 . (815) 921-4268 . (815) 921-4150
Dislocated Workers Program Distance Learning (Online and Telecours www.rockvalleycollege.edu/classes/online EdNet Support Center Education Engineering Enrollment Management Financial Aid and Scholarships Financial Services (Accounting).	. (815) 921-2200 ses) . (815) 921-4647 . (815) 921-3338 . (815) 921-3101 . (815) 921-4268 . (815) 921-4268 . (815) 921-4150 . (815) 921-4400
Dislocated Workers Program Distance Learning (Online and Telecours www.rockvalleycollege.edu/classes/online EdNet Support Center Education Engineering Enrollment Management Financial Aid and Scholarships Financial Services (Accounting) Fire Science	. (815) 921-2200 ses) . (815) 921-4647 . (815) 921-3338 . (815) 921-3101 . (815) 921-4268 . (815) 921-4268 . (815) 921-4150 . (815) 921-4400 (815) 921-3200
Dislocated Workers Program Distance Learning (Online and Telecours www.rockvalleycollege.edu/classes/online EdNet Support Center Education Engineering Enrollment Management Financial Aid and Scholarships Financial Services (Accounting) Fire Science First Year Experience	. (815) 921-2200 ses) . (815) 921-4647 . (815) 921-3338 . (815) 921-3101 . (815) 921-4268 . (815) 921-4268 . (815) 921-4150 . (815) 921-4400 . (815) 921-3200 (815) 921-4094
Dislocated Workers Program Distance Learning (Online and Telecours www.rockvalleycollege.edu/classes/online EdNet Support Center Education Engineering Enrollment Management Financial Aid and Scholarships Financial Services (Accounting) Fire Science First Year Experience Fitness Wellness and Sport	. (815) 921-2200 ses) . (815) 921-4647 . (815) 921-3338 . (815) 921-3101 . (815) 921-4268 . (815) 921-4268 . (815) 921-4150 . (815) 921-4400 . (815) 921-3200 . (815) 921-4094 (815) 921-3801
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Department Phone

Library		
Educational Resources Center	(815) 92	1-4600
Circulation Service	(815) 92	1-4615
Interlibrary Loan	(815) 92	1-4607
Reference Desk	(815) 92	1-4619
Serials	(815) 92	1-4623
Life Science	(815) 92	1-3471
Marketing/Communications	(815) 92	1-4514
Mass Communication	(815) 92	1-3360
Mathematics	(815) 92	1-3471
Mathematics Lab/CLII	(815) 92	1-3465
Modern Language	(815) 92	1-3317
Music	(815) 92	1-3317
Nursing Programs	(815) 92	1-3261
Office Programs	(815) 92	1-3101
Philosophy	(815) 92	1-3317
Physical Science	(815) 92	1-3471
PTAC - Procurement Technical	(010) 01	
Assistance Center	(815) 92	1-2191
Public Safety	(815) 92	1-4350
Records & Registration	(815) 92	1-4250
Refugee Program	(815) 92	1-2270
Registration (via telephone)	(815) 92	1_6799
Respiratory Care	(815) 92	1-3200
RVC-NILI Partnershin	(815) 33	2-7339
RRVEC-Rock River Valley	(010) 00	1000
Entrepreneurshin Center	(815) 92	1_2054
SBDC - Small Business	(010) 52	1-2004
Development Contor		
	(815) 02	1_2081
Social Science	(815) 92 (815) 92	1-2081
Social Science	(815) 92 (815) 92 (815) 92	1-2081 1-3317
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Social Science	 (815) 92 	1-2081 1-3317 1-3338 1-4100 1-4184 1-3330 1-4110 1-2353 1-2350 1-2370
Social Science	 (815) 92 	1-2081 1-3317 1-3338 1-4100 1-4184 1-3330 1-4110 1-2353 1-2350 1-2370 1-3200
Social Science	 (815) 92 	1-2081 1-3317 1-3338 1-4100 1-4184 1-3330 1-4110 1-2353 1-2350 1-2370 1-3200 1-2151
Social Science	 (815) 92 	1-2081 1-3317 1-3338 1-4100 1-4184 1-3330 1-4110 1-2353 1-2353 1-2350 1-2370 1-2151 1-2160
Social Science	 (815) 92 	1-2081 1-3317 1-3338 1-4100 1-4184 1-3330 1-4110 1-2353 1-2350 1-2370 1-2370 1-2151 1-2160 1-2167
Social Science	 (815) 92 	1-2081 1-3317 1-3338 1-4100 1-4184 1-3330 1-4110 1-2353 1-2380 1-2370 1-2370 1-23200 1-2151 1-2160 1-2167 1-3940
Social Science	 (815) 92 	1-2081 1-3317 1-3338 1-4100 1-4184 1-3330 1-4110 1-2353 1-2350 1-2370 1-3200 1-2151 1-2160 1-2167 1-3940 1-4116
Social Science	 (815) 92 	1-2081 1-3317 1-3338 1-4100 1-4184 1-3330 1-4110 1-2353 1-2350 1-2370 1-2151 1-2160 1-2167 1-3940 1-4116 1-2370
Social Science	 (815) 92 	1-2081 1-3317 1-3338 1-4100 1-4184 1-3330 1-4110 1-2353 1-2353 1-2350 1-2151 1-2160 1-2167 1-3940 1-4116 1-2370 1-4237
Social Science	(815) 92 (815) 92	1-2081 1-3317 1-3338 1-4100 1-4184 1-3330 1-4110 1-2353 1-2380 1-2370 1-2151 1-2160 1-2167 1-3940 1-4116 1-2370 1-4237 1-3101



ABOUT THE COLLEGE

ABOUT THE COLLEGE

History

For more than 40 years, Rock Valley College has offered comprehensive educational opportunities in a broad range of subjects to tens of thousands of residents of its service district. The college was established in 1964 through a district-wide referendum after a two-year study established the need for a community college. RVC's district is comprised of Winnebago and Boone counties and parts of Stephenson, Ogle, McHenry and DeKalb counties. The college is located on a 217-acre tract of land at Mulford and Spring Brook roads in northeast Rockford. In addition to the main campus, RVC operates programs at owned facilities at the Stenstrom Center for Career Education on Samuelson Road, home to several health and technical programs, the Aviation Center at the Chicago-Rockford International Airport in Rockford, and the Bell School Road Center, which houses the college's Center for Learning in Retirement.

Rock Valley College holds Continuing Education classes at more than 50 sites throughout its district, and operates employment and training programs at the Illinois Employment Training Center on at 303 North Main Street in Rockford. RVC boasts one of the Midwest's largest and most successful outdoor theaters. Starlight Theatre has a state-of-the-art, one of a kind open-air roof structure at the renovated and expanded Bengt Sjostrom Theatre on RVC's campus. The college is involved in workplace training programs, innovative cooperative programs with area high schools and state-of-the-market technology programs for business and industry.

Eight men's and women's intercollegiate sports are offered at RVC. The Golden Eagles compete in NJCAA Division III in volleyball, men's and women's basketball, baseball, softball, men's and women's tennis and golf. Many of the teams have enjoyed national prominence in recent years. RVC's rich athletic history includes more than 100 All-Americans and seven national championships. Since opening for classes in 1965, RVC has grown from a small community college with 35 faculty members and 1,100 students to an institution of 140 faculty members, 500 part-time lecturers and more than 8,500 students. For more information on Rock Valley College, visit the college's Web site at www.rockvalleycollege.edu.

Ceremonies marking the first RVC class at the old armory in 1965.



The Rogers farm was purchased in 1965 for the RVC campus.



First RVC campus buildings in 1966.



ABOUT THE COLLEGE

Rock Valley College Foundation

Established in 1979, the Rock Valley College Foundation is a 501(c) (3) non-profit corporation responsible for encouraging and administering private gifts to enhance Rock Valley College's ability to serve the public. The foundation recognizes that college funds are limited and supplemental private gifts are needed to provide rewarding, stimulating, and challenging educational experiences. Gifts to the foundation either directly or indirectly improve the quality of educational instruction, provide better equipment and facilities and make it possible for more students to obtain an education.

Since 1999, the Rock Valley College Foundation has raised more than \$5 million in cash and pledges for scholarships, grants to faculty and staff for innovative projects and programs outside the college budget, equipment, campus beautification, and capital projects. Of that over \$500,000 has been awarded to students through the Foundation scholarship program. In addition, the Foundation has allocated over \$450,000 in grants to faculty and staff to enhance classroom instruction, experiential learning, and professional development for Rock Valley College instructors and staff. The foundation is governed by a board of directors comprised of dedicated community and business leaders, as well as alumni, who share the college's vision of providing unparalleled quality in education, career training and professional development for residents of the Rock Valley College district. Through their contributions and support, they assist the college in fulfilling its role as a pace-setter in higher education for the greater Rockford region.

For more information about how any interested person can help the Rock Valley College Foundation provide excellence in higher education to our community, contact the Rock Valley College Foundation, 3301 N. Mulford Road, Rockford, IL, 61114-5699, call (815) 921-4500, or visit them on the Web at www.rockvalleycollege.edu/foundation.

Admission

Admission policy

RVC has an "open door" admission policy and admits students who meet the criteria:

- 1. High school graduates or GED earners.
- 2. Non-high school graduates age 18 years or older.
- 3. Transfer students from other colleges. Only credits earned from regionally accredited institutions will be accepted. No grade point average will be calculated on those credits accepted via transfer.
- 4. High school students age 16 or 17 who have written approval from the high school principal or counselor at the school where they have legal residence.
- 5. High school students under age 16 may be considered for enrollment in credit classes with the joint approval of the high school principal and RVC's High School Connections Transition Advisor. Students under 16 years old may enroll in non-credit classes; special permission is not required. For more information call (815) 921-4080.

New students

- 1. See what RVC has to offer. Call us at (815) 921-4250 to arrange a visit to the campus or check us out on the Web at www.rockvalleycollege.edu/explorervc.
- 2. Submit an application to Recruitment and Admissions. Programs with limited enrollment that require additional application steps include Aviation Maintenance Technology, Nursing, Dental Hygiene, Surgical Technology, Licensed Practical Nursing, and Respiratory Care. Refer to the Career Education Programs section for specific program admission details.
- 3. Submit original copies of high school and prior college transcripts. GED graduates should submit original certificates from the Regional Education Office. All documents should be submitted to Records and Registration.
- 4. Complete the appropriate placement tests. For more information on testing, see page 13.
- 5. Register and attend an Educational Planning Session. All new RVC Students are required to attend a session before they can register for classes. Sign up for a convenient time at www.rockvalleycollege.edu/educationplanning or call (815) 921-4094.
- 6. See an advisor or counselor to discuss course planning.
- 7. Register for classes.
- 8. Apply for Financial Aid. See page 25 for more information.
- 9. Arrange payment by the deadline. Check the course schedule book for payment due date.

International student admission

Students who are in the U.S. on a visa are considered international students. To enroll at the college, these students must:

- 1. Complete an RVC student information form for admission.
- 2. Submit proof of English language competency.
- 3. Complete the Statement of Financial Support or proof of "live-in-guest" status. Either form must be notarized.

- 4. Submit original transcripts of all high school and university work.
- 5. Complete all steps of new student process indicated above.

All documents must be submitted by the published deadlines to the Records and Registration Office. Please note: financial aid is not available to international students, and RVC does not provide on-campus housing. Direct questions about international student admission to (815) 921-4251. This school is authorized under federal law to enroll non-immigrant alien students.

Dual credit & dual enrollment admission

The HIGH SCHOOL CONNECTIONS office at RVC provides services and support to students taking college level courses while still in high school. These Dual Credit opportunities are available at RVC, in area high schools and through the Career Education Association of North Central Illinois (CEANCI), the regional, career and technical education delivery system. Dual Enrollment is also available to high school students, meaning they are simply taking RVC courses while still in high school. Contact the HIGH SCHOOL CONECTIONS office if you have any questions at (815) 921-4080.

Returning students

- 1. Review courses already taken and carefully review the catalog and class schedule available at www.rockvalleycollege.edu/onlineservices.
- 2. Students who have earned a college degree from an accredited university may request an EPS waiver (call 815-921-4094).
- 3. Consult with a counselor or advisor when selecting classes.
- 4. If nearing graduation, submit an application for graduation to the Records and Registration Office.
- 5. Check the course schedule book for registration dates.
- 6. Register for classes.
- 7. Arrange payment by payment deadline. Check the course schedule book for payment due date.

Transferring credit to RVC

Students at Rock Valley College (RVC) who have credits from another college and plan to earn a degree/certificate at RVC should submit an official transcript, in a sealed envelope from the issuing institution, to the Records & Registration office, along with a transcript evaluation request form. The transcript evaluation form is available in the Records & Registration office located on the second floor of the Student Center. Evaluations may take three to four weeks after receipt of all materials. Criteria for evaluation of transferable credits:

- Transfer credit must be earned at a regionally accredited institution.
- Whenever possible, RVC course equivalents for 100 and 200 level credits are awarded. If that is not possible, up to 21 credits of electives may be granted.
- 300 level/junior level credits will transfer on a course by course basis once equivalency is determined.
- 400 level credits require permission from the appropriate dean if a potential equivalency is determined.

- RVC accepts "D" grades only if the overall GPA is 2.0. (Refer to course descriptions at the back of this catalog for minimum course grade requirements; additional information is provided in the degree requirements for the Associate of Arts & Associate of Science beginning on p. 32 and, and in the degree/certificate requirements in the Career Education Program beginning on p. 44)
- Transfer credit does not affect cumulative GPA at RVC.
- RVC does not honor substitution and/or waivers made at another institution, unless approved by the appropriate Dean.
- Only degree/certificate required courses will be transferred in to a student's record. A maximum of 44 transfer credits will be applied. A minimum of 20 RVC credits are required to complete a RVC degree/certificate.
- Students may be required to provide course descriptions/syllabi to complete the transfer credit process.
- Foreign transfer credit must be evaluated by Education Credential Evaluators (ECE). Forms for evaluation are available in the Records & Registration Office.

Admission requirements for transfer degree programs

Students pursuing a transfer degree (Associate in Arts, Associate in Science, Associate in Engineering Science or the Associate in Arts in Teaching-Secondary Math), must successfully complete specific high school or college courses as outlined in the Illinois Public Act 86-0954 (see high school requirements below). A student who does not meet these requirements at the time of application is provisionally admitted as a pre-baccalaureate transfer student. When course deficiencies have been completed, the student is reclassified as a baccalaureate transfer student.

Subject	Years	Courses
English	4	Written and Oral
		Communication, Literature
Mathematics	3	Algebra I, Geometry,
		Algebra II, Trigonometry
Social Studies	3	History, Government
Science	3	Laboratory, Science
Electives	2	Foreign Language, Art,
		Music, or vocational

High school requirements

Students with academic deficiencies are considered by RVC to have satisfied these deficiencies upon successful completion of 32 college level credits (courses numbered 100 or above with a minimum 2.00 GPA), which must include English 101, Speech 131, one social science course, one four-credit laboratory science course, and one mathematics course (MTH 115 or higher).

Placement test requirements

All new students enrolling in credit classes are required to submit ACT scores or complete placement testing prior to registration. The placement test assesses a student's abilities in reading, English, and mathematics for the purpose of appropriate course placement. All testing is computer-based and untimed.

ACT/SAT scores may be submitted for a possible test waiver if submitted within three years of the original test date. Students currently holding post-secondary degrees from institutions accredited by recognized regional agencies may submit official transcripts to exempt them from placement testing. Transfer students may submit transcripts for a possible waiver. All requests for waivers should be submitted to the Records and Registration Office for evaluation as soon as possible.

Learning and physically disabled students who need additional services for testing should contact the Disability Support Services Coordinator at (815) 921-2356 at least one week prior to testing in order to arrange appropriate services.

Program advisement

Advising on specific programs is available to all students who have applied for admission and have completed all testing requirements. Appointments can be made at the Advising and Counseling Center at (815) 921-4100.

First Year Experience and New Student Programs

1. All new students are required to participate in an Educational Planning Session (EPS) before they can register for credit courses. The Educational Planning Session focuses on necessary information about the transition into RVC, academic expectations and your responsibilities, processes and services that students need to know in order to have a successful start at RVC. Register online at

www.rockvalleycollege.edu/educationplanning or call (815) 921-4094.

- 2. New students are encouraged to attend a New Student Orientation before their first semester. This event will include campus tours, mock classrooms and a chance to meet faculty, staff and students. Invitations will be sent to new students, or call (815) 921-4094.
- 3. New students are encouraged to enroll in STU 100-Planning for Success – a course designed to assist in transitioning to and excelling in college.

For more information, contact First Year Experience and New Student Programs at (815) 921-4094.

The HONORS Program at Rock Valley College

The Honors Program at Rock Valley College is aimed at students who desire scholarly stimulation and invigorating study, who want to learn for the sake of learning, and who want a college degree that testifies to an exemplary course of studies in the tradition of the Liberal Arts and Sciences.

Honors Program offerings are intended to foster discussion, a mastery of content, critical thinking, and analysis. The program is designed to help develop student initiative and leadership skills. Various academic/curricular options combine with co-curricular and extracurricular honors activities to enhance the program. The emphasis is always on close interaction among Honors faculty, Honors students and others involved in the Honors Program striving together toward the goals of academic and personal excellence.

Honors students will be asked to show an in-depth, critical understanding of course material through intense class discussion, group work, individual initiative, peer as well as faculty review and evaluation, and both independent and collaborative research. In essence, the Honors Program at Rock Valley College is designed to empower a community of students and faculty who value, above all, academic challenge and excellence.

When exceptional students and faculty are brought together from a broad variety of disciplines, they are rewarded with enriched, extraordinary, innovative courses. What will certainly follow is education in the truest sense of that word.

Students seeking admissions to the HONORS Program must –

- 1. Meet at least one of the following minimum admission criteria:
 - Top 10% of the student's high school graduating class, with graduation date no more than three years prior to application to the RVC Honors Program.
 - Cumulative high school GPA of 3.5 (4 point scale), with graduation date no more than three years prior to application to the RVC Honors Program.
 - ACT composite score of 25 or higher, or an SAT composite score of 1130 or higher, with test scores earned no more than three years prior to application to the RVC Honors Program.

- Cumulative GPA of 3.5 for 24 or more credits in 100/200 level courses taken at Rock Valley College or other fully accredited post-secondary institution with a minimum of 12 of those credit hours earned at RVC.
- 2. Complete the official Application for Admissions to the Honors Program at Rock Valley College.

Applications and details for application procedure will be available online, from area high school counselors, the RVC Advising and Counseling Office, the RVC HIGH SCHOOL CONNECTIONS office and the RVC Information Center in the Student Center.

Registration and Records

In order to register for classes, students must have completed an Application for Admission, attended an Educational Planning Session (EPS), and completed testing requirements. Dates, times, and methods for registration are listed in the course schedule book. Students who have been limited in their enrollment for academic reasons may appeal to the appropriate dean.

Auditing a class

Students who wish to audit a course without receiving credit must contact the Records and Registration Office. Auditing students pay full tuition and fees (see Tuition and Fees page 18). Changes may be made from credit to audit, or vice versa, only during the registration period, as indicated in the course schedule book. Audits are not allowed for non-credit courses.

Academic load

Full time students - Students who enroll in 12 or more credit hours during fall or spring semesters, or six or more credit hours during the summer session. The recommended maximum academic load during fall or spring semesters is 18 credit hours, during Summer Session I and III is 4 credit hours, and Summer Session II is 9 credit hours; registration for any additional hours must be approved by the appropriate academic dean.

Part time students – Students who enroll in 11 or less credit hours during fall and spring, and less than six credit hours during the summer session.

Withdrawal from a class

Rock Valley College reserves the right to administratively withdraw those students who are not actively pursuing the course. Students may also be withdrawn for emergency or disciplinary reasons or if they are enrolled in courses not consistent with placement testing and course prerequisites. Students are responsible for officially withdrawing from course/s they are no longer attending. These types of withdrawals do not remove any financial obligations incurred for the course/s. The appropriate withdrawals forms are available at the Records and Registration office.

Students are encouraged to consult with their Instructor, Counselor, and the Financial Aid Office if they are receiving aid, before withdrawing from a course. Withdrawal after the last day for tuition refunds date will result in a "W" grade on a student's transcript. Deadlines for shorter term courses may be found in the Records and Registration office.

Grades of "W" (withdrawal) are not used in calculating the GPA or semester hours attempted but will count toward financial aid eligibility. No withdrawals are accepted after the deadline except in case of extenuating circumstances

Students with extenuating circumstances (military activation, death of immediate family member, or serious medical condition) must submit an Enrollment Appeal to the Records & Registration office (815-921-4250). Enrollment Appeal forms are available in the Records & Registration office. All appeal forms must be accompanied by supporting documentation or the appeal will be denied. Submitting an appeal does not guarantee approval.

Academic policies and procedures

Transcript requests

There is no fee for an RVC transcript. The student must request a transcript release. The method for requesting transcripts is via Online Services at

www.rockvalleycollege.edu/onlineservices. Transcripts of work completed at other institutions are not released or copied for distribution. Copies must be obtained from the issuing institution. Questions regarding transcript requests should be directed to the Records and Registration Office at (815) 921-4250.

Updating student records

It is the responsibility of students to notify the Records and Registration Office of any change or correction to their name, address, telephone number, and/or any other information on their record. It is imperative that this information be kept current and accurate.

Repetition of courses

Only the grade of the final repetition will be computed in the student's grade point average (GPA), but all attempts will be listed on the transcript. If a student chooses to audit a course, it will not be considered a repeat or counted in the GPA. This does not apply to grades earned at other colleges. It is important to note that other colleges may count all grades for repeated courses when arriving at a GPA. It is the students' responsibility to acquaint themselves with the policy of the college(s) to which they plan to transfer.

Developmental reading course requirement

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Students assigned to RDG 080 (or 096, 099) must receive a grade of "C" or better in order to register for any courses other than basic skills courses. Any student enrolled in RDG 080 (096, 099) who drops the class will be withdrawn from all classes. RDG 080 (096, 099) may be repeated only one time.

Developmental Math Policies

If a student receives two non-passing grades (Ds or Fs) in a developmental math course, that student is not allowed to re-enroll for another math class at Rock Valley College without permission of the Associate Dean of Math/Sciences. Students placing into beginning algebra or lower must satisfy the geometry requirement prior to taking a college level class. Students must either take MTH 097 or complete a geometry waiver form or pass a competency test.

Financial obligation of the student

Grade reports, transcripts, degrees/certificates, or other academic record information may be withheld from students who are in default on financial obligations. In such a case, students maintain the right to inspect and review their records. Information will only be released once the student's account has been cleared.

Credit for prior experiences

1. Proficiency examinations

Proficiency exams are given at RVC for specific Rock Valley College courses in several divisions. Students who wish to receive credit by examination should contact the proper divisional chairperson or director for information about what is available. Students must submit a proficiency examination application for exams that meet their needs. The credit hour nonrefundable fee is 50% of the regular tuition rate for that semester; the receipt for this fee serves as admittance to the testing session. Credit will be recorded after successful completion of the exam, meeting the divisional requirements, and earning six credit hours of 100 level or higher courses at RVC.

2. College Level Examination Program (CLEP)

The CollegeBoard CLEP examination program gives students an opportunity to demonstrate prior learning and to earn credit for that knowledge. A maximum of 47 semester hours of credit may be earned through CLEP. Certain fees apply for taking CLEP exams at RVC. Credit is awarded based on the score(s) earned and after earning 6 credit hours or more in 100 level classes and the submission of official CLEP score report(s) to the RVC Records and Registration Office for evaluation. To obtain more information about CLEP visit, www.collegeboard.com/clep and www.rockvalleycollege.edu/clep or contact the Testing Center at (815) 921-2380.

3. Advanced Placement

Credit may be granted to students who have participated in the CollegeBoard AP examination program. Credit is awarded based on the score(s) earned and the submission of official AP score report(s) to the RVC Records and Registration Office for evaluation. To obtain more information about AP visit www.collegeboard.com/student/testing/ap/about.html or contact the Testing Center at (815) 921-2380. Credit will be recorded on student transcript when they earn at least 6 college level credit hours at RVC have been earned.

Advanced Placement participants whose AP scores do not qualify for credit may pursue RVC's proficiency program for earning college credit.

4. Professional certificates and federal licenses

College credit is granted for specific professional certificates and/or federal-state licenses or certificates. Students should contact the RVC division in which they will be pursuing a degree or certificate for more information. Credit will be recorded on student transcripts when they earn at least six credit hours at RVC.

5. Credit for alternate learning

College credit may be granted toward an Associate Degree for the following programs certified by the U.S. Department of Labor, Bureau of Apprenticeship and Training.

- Aviation Maintenance Technology: Federal Aviation Administration Mechanics Certificate (FAA 8060-1).
- Child Care and Development: Maximum three hours for Child Development Associate Credential (CDA).
- Chrysler Institute: Equivalent hours of college credit for successful completion.
- Criminal Justice: College course credit may be granted for successful completion of a state approved full-time or part-time academy in law enforcement.
- Fire Science: College course credit may be granted for the successful completion of Illinois State Fire Marshal and Illinois Department of Public Health courses/certificates.
- Office Occupations: Maximum 12 hours college credit for successful completion of the Certified Professional Secretary Examination (CPS).
- Production and Inventory Control: Maximum of nine hours of college credit for Production and Inventory Management (CPIM) designation.
- Respiratory Care: Respiratory Care program course credit may be granted for Certified Respiratory Therapist (CRT) Examination.

Grading

Grade points at Rock Valley College are assigned on the following scale:

Grade	Significance	Grade-Point Level
А	superior	4.0
В	good	3.0
С	average	2.0
D	poor	1.0
F	failure	0
W	withdrew/not completed	NA
Т	credit by proficiency	NA
AU	audit*	NA
Р	successful completion	NA
1	incomplete**	0
NA = not a	applicable	

Audit (*) – Students may elect to audit a course (no credit, no grade points, not figured in grade point average). Audit status indicates that the student will attend the classes but will not receive credit. A student must declare audit status before the first day of classes.

*Incomplete (**)* – Upon prior arrangement and agreement with the course instructor and upon submission of the college's "incomplete grade agreement form" submitted by the instructor, an incomplete (I) indicator will be recorded on the student's record. An "I" will be issued at the discretion of the instructor when course requirements are not fulfilled by the end of the term only when the instructor believes that the reason the student cannot complete the course in a timely fashion is sufficiently serious to warrant the issuance of the "I" indicator.

The incomplete grade agreement is a contract made between the student and the instructor, and states specifically what the student must do to complete the course work. The course work must be completed within the specified time period, not to exceed 12 months from the end of the term in which the course was taken. Upon completion of the course work, the instructor will change the "I" indicator to the appropriate letter grade (A, B, C, D or F). If the student does not complete the course work within this prescribed time period, a grade of "F" will be entered for the course.

Calculation of grade point averages

A grade point average (GPA) will be calculated at the conclusion of each semester. The GPA includes all A-B-C-D-F grades complete to date, except those courses in which the pass/fail system is used exclusively, or those courses in which the pass/fail option is selected, or courses numbered less than 100. If a course is repeated, only the grade of the final repetition will be computed in a student's GPA.

The GPA will be calculated based on a four point basis (F=0, D=1, C=2, B=3, and A=4) where the number of grade points for a specific letter grade is multiplied by the number of credit hours earned for that course. For instance, the number of credit hours in which the student earned an A is multiplied by four then added to the number of credit hours in which the student earned a B multiplied by 3, etc. Finally, the total grade points are divided by the total credit hours for which a student received an A, B, C, D, or F.

Appeal of a Capricious Final Grade

The following procedures are available only for review of alleged capricious grading, and not for review of the judgment of an instructor in assessing the quality of a student's work. Capricious grading is limited to one or more of the following:

- A. The assignment of a final course grade to a particular student on some basis other than performance in the course.
- B. The assignment of a final course grade to a particular student by a substantial departure from the instructor's standards announced during the term which are not uniformly applied to others in the class.

The assessment of the quality of the student's academic performance is solely and properly the professional responsibility of the RVC faculty. It is essential for the standards of the academic programs at RVC and the integrity of the degrees conferred that these professional judgments are not subject to pressures or interference from any source.

Process for Capricious Final Grade Appeal

A student who wishes to appeal a final course grade which he/she feels has been capriciously given should follow the steps below. Grades may be appealed no later than the beginning of the fourth week of the academic term or summer session which directly follows the term in which the grade involved was awarded.

- 1. A student who wishes to appeal a capricious final grade must first meet with the faculty member to review the criteria applied in assigning that grade.
- 2. After this initial review, if the problem is not resolved, the student may next appeal in writing to the faculty member's Associate Dean. Once the appeal is read, the Associate Dean will meet with the faculty member to review the criteria applied to the student's performance in assigning the capricious grade. When the faculty member and the Associate Dean have reached a decision, the Associate Dean will communicate that decision in writing to the student.
- 3. If the problem is still not resolved, the student may appeal in writing to the Dean of the College for further review. When the faculty member and the dean have reached a decision, the dean will communicate the decision in writing to the student.

4. In the event the matter is not resolved, the student may file a petition with the Vice President of Academic Affairs requesting a hearing by the Grade Review Committee. All decisions of this committee are final.

President's List and Dean's List

To be eligible for the President's List and Dean's List for a given semester, students must earn credit in at least 12 credit hours of college credit courses which count toward a certificate or degree.

Students who meet the eligibility requirements and earn at least a 3.25 grade point average will be named to the Dean's List (fall and spring semesters only). Students who meet the eligibility requirements and earn at least a 4.0 grade point average will be named to the President's List (fall and spring semesters only).

Academic forgiveness criteria

Academic forgiveness is the one-time elimination of up to a maximum of 15 semester hours of "D" or "F" grades in courses numbered 100 or above received at Rock Valley College. Academic forgiveness applies to the calculation of a grade point average (GPA) at RVC and does not result in the deletion of those grades from the transcript. To be eligible for academic forgiveness:

- 1. Students may petition for academic forgiveness for a maximum of 15 semester hours of "D" or "F" grades which have been earned in any 365-day period.
- 2. A period of 12 months must have elapsed between the date of the request for forgiveness and the end of the last semester in which the undesirable grades were earned.
- 3. Petitions shall include:
 - a. A list of those courses to be considered for academic forgiveness.
 - b. A statement which contains pertinent information regarding the receipt of the undesirable grades and an indication of serious intent to continue academic studies.
- 4. Only those students with an RVC grade point average of 2.5 or lower will be considered for academic forgiveness.
- 5. To be considered for academic forgiveness, a student must have completed a minimum of 12 credits of subsequent course work at a 2.0 GPA at RVC or another regionally accredited institution.
- Academic forgiveness does not apply to courses which have been repeated and completed with grades of A, B, C, D, or F.

Petitions/forms may be obtained from the Records and Registration Office. Eligible students may apply for consideration for academic forgiveness to the Dean of the College.

Tuition and fees

By registering for a course, students agree to pay the required tuition and fees for that course. Tuition is charged per semester hour for credit courses and varies depending upon residency. Tuition rates and fees are subject to change without prior notice.

Residency

Students enrolling at RVC are classified for the purpose of determining tuition and fee rates. Evidence of resident status is provided on each applicant via the application for admission. Questions regarding classification should be directed to the Records and Registration Office at (815) 921-4250.

District student

To be classified as a District 511 resident, students must have resided within the district for at least 30 days prior to the start of the semester. Students who have moved from an outof-district or out-of-state residence to an in-district residence for reasons other than attending RVC are exempt from the 30-day requirement upon verification. Residency verification requires one of the following: an official signed lease or rental agreement, a current Illinois driver's license or State ID, a utility bill in the student's name, or a valid Illinois voter's registration card. A student living outside the district/state, but who is employed at least 35 hours per week within the district, must present a letter from the employer prior to each semester testifying to that fact in order to have out-of-district/state fees waived. International students may be considered in-district students if they (1) graduated from a high school in the RVC district and hold a student visa or (2) have a sponsor who lives within the district and signs a form verifying sponsorship and guaranteeing payment of tuition, fees, and miscellaneous college charges. Contact the Records and Registration Office at (815) 921-4250 with questions.

Out-of-district students

A student who has not established residency within Community College District 511, but is a resident of the state of Illinois, will be classified as out-of-district and charged the appropriate tuition. Out-of-district students who want to attain an approved occupational program degree or certificate offered only at RVC and not their own district community college should refer to "Cooperative Educational Agreements" (page 79).

Out-of-state students

Students whose legal residence is outside of Illinois are considered out-of-state students and charged the appropriate tuition. International students who are not citizens of the United States and do not meet the criteria listed above will be considered out-of-state students.

Tuition

Tuition for college credit courses is charged per semester hour and is determined by residency. For current rates refer to the current course schedule book.

Fees

Refer to the current course schedule book for specific fee amounts.

Tuition for senior citizens

Students 62-64 years of age who are residents of Rock Valley College District 511 qualify for a reduced tuition rate of \$25 per credit hour for credit courses only. Students age 65 and over who are district residents may attend credit classes tuition free. All other fees will be assessed at a full rate for students in both age categories. The tuition reduction is not applicable for enrollment in non-credit seminars, classes, or programs. To qualify, a student must meet the appropriate age qualification prior to July 1 of the year in which enrollment is planned for summer and fall courses. Spring semester registrants must meet the age qualification prior to January 1 of the year they are enrolling.

Tuition refund policy

Rock Valley College has determined students may receive a tuition refund upon dropping credit courses based on the following guidelines. In each case if the student drops courses by the specified date, all tuition and fees are refunded. There is no prorated schedule for tuition and fee refunds.

Tuition refund requests should be made to the Records & Registration Office during normal business hours. Refunds will be made according to the following schedule:

Course length 16 – week course (fall-spring)	100% refund Before or during first 10 business days of semester	No refund After the 10th business day of the semester
4 - 15 week course	On or before 7th business day from start of class	After the 7th business day
Less than 4 week course	On or before 3rd business day from start of class	After the 3rd business day

The college reserves the right to make the final decision on all refunds.

- It is the student's responsibility to know the refund dates for their courses.
- Non-attendance does not constitute a drop in a course nor qualify students for a refund.
- Failure to drop a course properly may result in a failing grade.
- No refunds will be granted when a student is dismissed or suspended from the college for disciplinary reasons.
- It is the student's responsibility to drop themselves from a course.

Tuition Appeals

No tuition refund will be granted following the tuition refund date. (See course schedule for specific dates). If extenuating circumstances exist (i.e. military activation, death of immediate family member, or serious medical condition) a student may submit a Tuition Appeal with supporting documentation to the Records & Registration office. A Tuition Appeal does not automatically result in a refund. Tuition Appeals may be submitted within the term in which the student was enrolled in the course/s.

Payment information

Student RVC billing statements are available at www.rockvalleycollege.edu/onlineservices. Payment deadlines vary based upon registration date. Refer to the course schedule book for specific dates by which students must pay or enroll in a deferred payment option.

Payment methods include cash, check, or credit card (Mastercard, Visa or Discover). To make a payment students can (1) go to www.rockvalleycollege.edu/payment to pay Online via Nelnet Tuition Management, (2) visit the Accounts Receivable Office in the Student Center, or (3) use telephone registration at (815) 921-6799. Students receiving financial aid or scholarships should contact the Financial Aid Office to ensure payments are applied correctly.

Students who do not make payment or select a deferred payment option, or financial aid students who have not received an award letter confirming their aid by the payment arrangement deadline will have classes canceled for non-payment.

Cooperative agreements and tuition chargebacks

Students in Rock Valley College's District 511 who wish to pursue occupational degree and certificate programs not available at RVC may do so by the following:

- Cooperative agreements RVC has cooperative or joint agreements for a number of programs with neighboring community colleges. Through a cooperative agreement, District 511 residents may attend another community college at the other school's in-district tuition rate.
 Applications for cooperative agreements are available in the Student Development Office, on the second floor of the Student Center. Refer to Cooperative Educational Agreements, pages 79-80.
- Chargebacks Resident students who want to pursue a certificate or occupational degree program not available through RVC or one of the cooperative agreements may apply for chargeback tuition if they plan to attend another public Illinois community college that offers that program. Applications for chargeback tuition must be obtained from the RVC Student Development Office prior to the first day of classes of the semester/quarter at the attending school. If approved, the student pays in-district rates for the college they are attending and RVC pays the difference between the in-district and out-of-district rate to the other institution. Chargebacks are available only for occupational programs resulting in a degree or certificate and not for individual courses. Repeated courses, prerequisite courses, and developmental courses are not funded by chargebacks.

For further information, guidelines, and applications for cooperative agreements or chargebacks, please call the Student Development Office to schedule an appointment at (815) 921-4281.

Note: A cooperative agreement supersedes a tuition chargeback. See the listing of Cooperative Educational Agreements on pages 79-80.

Out-of-district students who want to enroll in a program at RVC under a cooperative agreement or chargeback should contact their own community college first to make initial application.

Graduation

Graduation academic honors

Graduates with a cumulative GPA of 3.25 to 3.74 will graduate with honors. Those with a cumulative GPA of 3.75 to 3.99 will graduate with high honors. Those with a cumulative GPA of 4.00 will graduate with highest honors.

Second degree requirements

A student who has received or qualified for one associate degree from Rock Valley College may receive a second degree upon satisfactory completion of all graduation requirements for the second degree, including an additional 15 semester hours of residency. All specific course requirements for the second degree must be satisfied and at least 15 semester hours of credit, not applied to meet minimum requirements for the first degree, must be applicable toward the second degree.

A student who has received a degree from any other college accredited by a regional accrediting agency, such as the North Central Association, may receive a second degree from Rock Valley College upon satisfactory completion of all graduation requirements for the second degree, including a minimum of 20 semester hours of residency at Rock Valley College.

Graduation ceremony

Graduation exercises are held once each year at the end of the spring semester. All students who will complete graduation requirements for the following degrees; A.A., A.S., A.A.S., A.E.S., and A.G.S. are eligible for participation in the spring commencement ceremony. Students that expect to complete their degree at the end of the spring semester or summer immediately following, as well as those who completed their requirements the previous summer or fall semesters, are encouraged to participate. Students must submit an application for graduation to participate in the commencement ceremony. These students will be sent additional information and notified about picking up their cap and gown during the spring semester. Students completing a certificate program will receive their certificate in the mail following the semester of completion. Certificate recipients do not participate in the commencement ceremony.

Graduation requirements

The general procedures for graduation are outlined below. Course requirements and other regulations are explained for each degree and major in the program section of this catalog.

Students should:

• Meet early and often with a counselor or advisor to plan a program of study and to ensure all requirements are met to graduate.

- Know and observe the requirements of the curriculum and the rules governing academic work. Counselors can help each student make wise decisions but the ultimate responsibility for meeting the requirements to graduate rests with each student.
- Have at least a minimum of 20 semester hours of residency.

Students will be certified for graduation only if they satisfy the requirements specified in the official college catalog, according to the following:

A student may elect to follow degree requirements set forth in any subsequent catalog if the student completes a

Earliest catalog to be used to determine eligibility for graduation:	To graduate on/before August 15 of the following years:
2003-2005	2010
2005-2007	2012
2007-2009	2014
2009-2011	2016

credit course during that catalog's effective dates. A new catalog becomes effective in the fall term of the first year issued and remains in effect until the end of the summer session of the last year noted. Requirements may not be combined from different catalogs.

In the case of curriculum changes and the cancellation or withdrawal of courses, every effort will be made to substitute current course work to fulfill certificate or degree requirements. Course substitutions must be approved in writing by the appropriate academic chairperson, associate dean or dean. The student has the ultimate responsibility to fulfill the requirements for the certificate or degree, to check the eligibility to take courses and to observe the academic rules governing the program. The rules given apply only to requirements for certificates and degrees. All students are subject to the academic regulations stated in the most recent college catalog.

- Transfers: Students who complete any courses (including final ones) from another college, must submit official transcripts as soon as possible and submit a transcript evaluation request.
- Timing: Graduation requirements may be completed during any semester; however, if a program cannot be completed as planned, notify the Records Analyst immediately.
- Application: Students must submit an application for graduation in the Records and Registration Office, Top Floor of the Student Center, by the publicized dead-lines (class schedule) in order for their degree to be processed.

Activities

Rock Valley College is committed to helping its students be successful. To this end, the college provides a variety of activities and services for students. Please review the following to become familiar with how we can help students meet their goals

Athletics

Nickname: Golden Eagles

Colors: Navy Blue and Gold

Conference: N4C (North Central Community College Conference) College of DuPage, William Rainey Harper College, Joliet Junior College, Triton College

Sports:	
Men	Women
Golf	Volleyball
Basketball	Tennis
Baseball	Basketball
Tennis	Softball

Rock Valley College is a member of the National Junior College Athletic Association (NJCAA) which governs eligibility and competition.

Freshman eligibility: Must be a high school graduate or equivalent; during semester of competition, must be enrolled for at least 12 semester hours of credit leading to a degree or certificate; at end of first full-time semester, must have passed at least 12 semester hours of credit with a 2.0 GPA or better.

To remain eligible for a second season: Must have passed 24 semester hours of credit with at least a 2.0 GPA; must not have completed two seasons of intercollegiate competition in any single sport.

Other circumstances: Transfer students, part-time students and students with college credits who have never participated in intercollegiate athletics should contact the Director of Athletics.

Physical exams and medical forms are required each year before competing.

Clubs and organizations

A variety of clubs are organized and operating on campus. These clubs engage in numerous activities, including conferences and social and educational activities. The clubs in existence may vary from semester to semester depending on student interest. The following interest groups have been active in the past:

- Acappella Club
- Art and Literary Club (Voices)
- Association of Latin American Students (ALAS)
- Black Student Alliance (BSA)
- Campus Greens
- Ceramic Art Organization
- Circle K
- College Democrats
- College Republicans
- Drop Squad (Hip Hop Dance)
- Earth Club
- Fastpitch Softball Club
- Future Educators' Society
- GSA (Gay-Straight Alliance)
- Gamers' Club
- Geocachers
- In Focus Club
- Intervarsity Christian Fellowship
- Japanese Animation Club
- \bullet Multicultural Club
- Music Educators' Club
- Phi Theta Kappa Honor Society
- SHAPE (Social Sciences Club)
- SIFE (Students In Free Enterprise)
- Society of Manufacturing Engineers' Club
- \bullet Spirit Squad
- Student Dental Hygienists' Club
- Students for Better Breathing

International education and study abroad

RVC is committed to providing its students with cultural diversity experiences and expanding sensitivities to people in other countries. To further this aspect of the RVC mission, the college requires that students seeking the A.A., A.S., A.A.T. or A.E.S. degrees complete at least one selected course in non-Western art, history, literature, music or speech. RVC also provides opportunities for its students to study abroad. Qualifying students can select from the following programs:

- Canterbury Christ Church University College (Canterbury, England). Spring or fall semester study available. Students live with British host families and take general liberal arts courses at Christ Church.
- Carlow College (Carlow, Ireland). Spring or fall semester study available. Students take general liberal arts courses at Carlow College along with Studying Irish culture.
- The Forester Institute (San Jose, Costa Rica). Summer half-semester only. Students study Spanish and Latin American culture immersed in a Spanish-speaking environment and life with Spanish-speaking host families. Open to students of all majors and concentrations who want to improve language fluency.

- Salzburg College (Salzburg, Austria). Spring or fall semester study available. All instruction is in English, but students study German and live with Austrian host families.
- Seville, Spain. Spring or fall semester study available.
- Other opportunities are available for study in Australia, Dijon, France, and Xi'an, China.

All credits earned in these study abroad programs are posted to the students' Rock Valley College transcripts as RVC credits. All courses available at all sited contribute toward earning A.A., A.S., or A.A.S degrees, and will transfer to most senior institutions.

For more information, contact the Advising and Counseling Center or the International Studies Coordinator.

Student Government Association (SGA)

Rock Valley College Student Government Association is a body of students elected by their peers to serve as their voice on campus. SGA promotes student involvement and seeks to improve the general student welfare. General meetings are held once a month.

The SGA is made up of 20 individuals. There are eight officers, eight student senators, and four freshmen representatives. Senators represent the following sectors: Non-Traditional Students, Transfer Students, Diversity Issues, Off-Campus Issues, Student Athletes, Career Programs, Student Organizations and International Students. More importantly, the Student Association is made up of any student registered in an activity fee paying class at Rock Valley College.

Student Government represents the student body by:

- 1. Maintaining and exercising their voice in all studentoriented issues and consistently striving to develop the students' needs, wants and ideas
- 2. Serving on advisory committees that cover goals and objectives of Rock Valley College, class and degree requirements and campus-wide policies regarding students
- 3. Providing a Student Forum for the student community to come and voice their opinions
- Actively pursuing student issues and promoting activities related to the increased success of the student community
- 5. Reviewing the Constitution and Bylaws of all newly established clubs and organizations including some sponsorships.

Campus Activities Board (CAB)

Student Life at Rock Valley College knows how important involvement is both inside and outside of the classroom. Student involvement is essential to the intellectual, social, recreational, ethical and leadership development of the population of Rock Valley College's campus. The goal of the Campus Activities Board is to establish an atmosphere where theory and practice merge to fulfill student development. CAB plans and executes events that are fun, educational, engaging and far reaching. It is our responsibility to consider events and activities that all students will enjoy. There are five officers' seats: Chair, Vice Chair, Public Relations Coordinator, Budget Coordinator and Secretary. The members may sit on any of the five committees: planning, budget, marketing, future, and implementation. Meetings are held bi-weekly.

Please contact Student Life for more information at (815) 921-4184 or at www.rockvalleycollege.edu/studentlife.

Student Services Academic Advising and Counseling

Academic advisors provide educational advisement and assistance with academic planning so that students can select education and training programs that are consistent with their career goals. Personal counseling is available to help students resolve or cope with personal areas of concern that threaten to interfere with their study. Counseling and referral to community agencies are also available for students experiencing problems outside of college life.

Bookstore

The Barnes and Noble Bookstore on campus offers new and used textbooks, trade books, supplies, backpacks, insignia clothing and gifts, and gift cards. To reserve textbooks, students can go to www.whywaitforbooks.com where they can have books shipped to their homes or held for pick up in the bookstore. Also, go to www.campusestore.com for academically priced software. Book buyback for fall and spring term is the week before finals and finals week. Summer buyback dates vary. Regular store hours for fall and spring terms are Mon.-Thurs. 8:30 a.m. - 6:00 p.m. and Fri. 8:30 a.m. - 3:00 p.m. Call (815) 921-1680 for buyback dates, summer hours, extended hours, and hour changes due to holidays and breaks.

Career Services and Placement

Career Services and Placement serves as a clearinghouse for off-campus part-time/full-time employment listings, job search skills, career counseling, and general career information. Special attention is given to graduates in all phases of securing employment. Personality and interest inventory testing is provided to help students obtain additional information about themselves. With a counselor's help, students are encouraged to use test results as indicators and a basis for planning and self-evaluation. The following services are free to any individual who has taken a class at RVC:

• Computerized employment listings for part-time/fulltime, professional, technical, skilled, unskilled, seasonal,

and temporary employment

- Individual assistance with resume writing, cover letters, and job search techniques
- Resume software and computers to produce professional looking resumes and cover letters.
- One-on-one career counseling
- Career information via a computerized guidance system to help plan and research career goals
- Internet access to research careers and job listings on the Web
- "CHOICES," a tool to research college and universities across the country. Information is available on tuition and fees, room and board, available majors, size of school, and financial aid.

Disability Services

Learning and physically disabled students who qualify for academic services in accordance with Section 504 of the Rehabilitation Act or the Americans with Disabilities Act (ADA) should contact the Disability Support Services Coordinator at (815) 921-2356 (V/TTY) to arrange for the appropriate services.

RVC establishes individual services for each student. Reasonable accomodations available include (but are not limited to) extended time for tests, textbooks in alternate formats, sign language interpreters, assistance with note taking, specialized computer programs, readers for tests, and Braille materials.

Verification of the disability must be provided to the coordinator from a qualified professional. Documentation should be current and include a listing of the services appropriate for the student. In order to have services in place in a timely manner, students should make contact with the coordinator as soon as possible, and one week prior to taking the placement exam for new students.

EdNet

Rock Valley College has its own student e-mail and conferencing system called EdNet. Conferences are forums or bulletin boards, generally focused on a single topic. Instructors can post messages, assignments, class notes, practice tests, or information relevant to their classes. Students can post questions to the conference and get help from their instructors and other students.

In addition to class conferences, EdNet has an "RVC Open Discussion" conference, which contains discussions about current events; a "Global Village" conference, where students can talk to each other from all over the world; and a variety of student club conferences.

24 All students enrolled in RVC credit classes are given free EdNet accounts. For more information, go to the EdNet home page at ednet.rvc.cc.il.us.

Distance Learning

Distance learning refers to education that takes place with the students and instructor in different locations. At Rock Valley College, the primary options for distance learning are online courses and telecourses.

Online courses are offered via the Internet. The course materials, such as syllabi, assignments, lectures, writing prompts, and activities are all posted on a Web site or within EdNet and are designed and controlled by the instructor. Students work on the course materials independently, reading the texts and lectures and completing assignments. Students also participate in class discussions and conferences online, both in real time (synchronous) and in a bulletin-board format (asynchronous). Students may take tests and submit assignments through the Web site or EdNet, but some instructors will require students to come to campus to complete their exams.

A telecourse is a complete instructional system consisting of videotapes, a textbook and/or study guide, and a Rock Valley College instructor. Students work independently, reading the text, viewing videotapes, and completing assignments, projects, and tests. The videotapes of a telecourse, produced by colleges and universities across the country, provide an alternative to the classroom lecture. Students have contact with the instructor either by email, phone or individual conferences.

Questions about a distance learning class should be directed to the instructor before registering so that students understand what is expected of them. The independent nature of these classes generally makes them more time consuming than their on-campus equivalents. These courses appear on a transcript in the same manner as on-campus courses and will be evaluated for transfer by other institutions in the same manner.

Transfer Center and Student Multi-Cultural Initiatives

The Transfer Center and Student Multi-Cultural Initiatives Office assists students planning to transfer to a four-year college or university. Resources available include guidance on selecting RVC courses, guidance in completing admission and scholarship applications and accessing information about four-year institutions. In addition, the center staff will assist students in visiting four-year institutions. Multi-cultural events, leadership conference and other outreach activities are organized in this office.

Financial Aid

Four basic types of financial aid are available to Rock Valley College students: grants, scholarships, loans, and employment. For complete information about financial assistance, contact the Financial Aid Office at (815) 921-4150 or go to www.rockvalleycollege.edu/financialaid to view the RVC Financial Aid Handbook.

Application procedures

In order to determine eligibility for financial aid at Rock Valley College, students must complete the Free Application for Federal Student Aid (FAFSA). Students must apply for aid yearly, as soon as possible after January 1 for the upcoming fall/spring/summer semesters to assure full consideration for all grants. For priority consideration deadlines students should refer to the RVC Financial Aid Handbook. Students are encouraged to file online at www.fafsa.ed.gov.

Standards of academic progress

In accordance with the U.S. Department of Education and state of Illinois regulations, Rock Valley College established Standards of Academic Progress applicable to all financial aid recipients. These standards apply to all students receiving federal and state funding, including veterans and students receiving student loans or federal/RVC work-study employment. For a copy of the entire policy, students can contact the Financial Aid Office for the Financial Aid Handbook or view online at www.rockvalleycollege.edu/financialaid

- Completion rate requirement A student must achieve a 67% cumulative completion rate for all course work attempted at Rock Valley College. This applies whether or not the student previously received financial aid. In addition, the student must achieve a 67% cumulative completion rate for all course work attempted within a given semester.
- a. Credit hours completed are defined as completion of a course by the end of a given semester in which a student is enrolled and receiving a grade of A, B, C, D, or P.
- b. Credit hours attempted include all credit classes in which the student is enrolled after the refund period. Withdrawals after the refund period count as hours attempted for financial aid purposes as well as grades of "F."
- c. Audits, proficiency tests, and non-credit courses are not included in the total number of credit hours attempted.
- *Grade-point average requirement* A student must maintain a minimum GPA requirement or probation status in order to continue receiving financial aid.

- *Maximum timeframe requirement* Student eligibility for financial aid at Rock Valley College is limited to 96 credit hours attempted, regardless of whether or not the student previously received financial aid.
- *Evaluation requirement* At Rock Valley College, academic performance must be evaluated before a student can receive financial assistance. Academic performance is evaluated after each fall and spring semester.
- Developmental course requirements While taking developmental courses (i.e., MTH 097) a student must also be enrolled in and attending an eligible 100 level class.

These requirements are subject to change and may be updated.

Veteran's program

Students interested in VA benefits, Illinois veterans' benefits, and any other related programs should contact the Financial Aid Office. For more information, call (815) 921-4163.

Scholarships

A variety of scholarships are available to Rock Valley College students through private funding sources and the Rock Valley College Foundation. Information about these opportunities and applications can be obtained through the Financial Aid Office or at www.rockvalleycollege.edu/scholarships.

Federal refund policy

Students receiving Title IV funds (Federal Pell Grant, Federal SEOG, and Federal Family Education Loans) who withdraw from all classes will be subject to the federal policy. This policy states a student may retain only the amount of aid that they have earned. It is the student's responsibility to return any aid that was not earned and pay any tuition balance resulting from the refund(s). Further details can be obtained from the Financial Aid Office or at www.rockvalleycollege.edu/financial aid.

Helpful Web sites include:

- www.finaid.org
- www.mapping-your-future.org
- Illinois Student Assistance Commission (ISAC) (800) 899-ISAC www.collegezone.com
- U.S. Department of Education (800) 4 FED AID www.studentaid.ed.gov

Students can obtain printed copies of The Student Guide from the U.S. Department of Education in the Financial Aid Office.

Other Services

Library (ERC)

Through its state-of-the-art integrated library system and Internet capabilities, the campus library provides access to a wide array of materials to support the instructional and research needs of its students and faculty. The library collection provides students and faculty with almost 100,000 items. Materials can be located through our online catalog. The library has access to close to 80 databases for locating magazines, newspapers, journals and other materials.

Viewing facilities are provided for in-house use of prerecorded videotapes and DVD's. Conference rooms and viewing facilities may be reserved in advance. Teleconferencing capabilities also provide a means for students and faculty to keep up with the latest academic discussions.

The library contains an electronic classroom with 24 workstations, where professional librarians conduct instruction on all types of library research and hold sessions for particular classes by instructor request. It also has an open lab with 22 stations and an information Commons area with 33 workstations for individual work. In addition to Course Reserves and Inter-Library Loan Services, tapes for telecourses are available through the library, and equipment is available to view telecourses.

Online Services

A wide variety of options are now available at www.rockvalleycollege.edu/onlineservices. Students can register for classes, review their class schedule, search for available courses, pay their bill, review grades, review/request transcripts, review their financial aid status, and more. To access Online Services, students will need a student ID number, which can be obtained from the Online Services Web site. For help with these services, students can call (815) 921-INFO.

Public Safety

RVC's Public Safety Department is dedicated to assuring the safety of all members of the campus community (authorized by 110 ILCS 805/3-42.1). RVC police officers have the same authority as city police officers and county sheriffs, including power to arrest on view and on warrants. The officers enforce all laws of the state of Illinois, city of Rockford, and regulations of the college.

Services include, but are not limited to, the following:

- Evening escort service
- Emergency first aid

- Delivery of emergency messages
- Administration of parking and traffic program, parking lot enforcement, and traffic control
- Vehicle assistance, which includes jumping a dead battery and unlocking a vehicle that has the keys locked inside
- Provision of general information and many other services

Public Safety officers are on campus 24 hours a day, seven days a week.

All students and visitors are required to observe traffic regulations established by the college. Copies of the regulations are available from the Public Safety Office or from the college Business Office. The speed limit on campus is 20 mph and is enforced by radar.

The Department of Public Safety can be reached at (815) 921-4350 (non-emergency) and (815)654-4357 (emergency).

Success Center

One of the services provided by the Success Center to support the academic development and enrichment of RVC students is free tutoring. All tutoring fees are included in the Student Activity fees. Types of sessions include: (1) standing (a regularly scheduled time for the same hour each week with a maximum of two sessions per week); (2) one-time (a scheduled time for only one session); and (3) walk-in (an unscheduled session if a tutor is available). Students should bring their textbooks and class notes to the session. Phone (815) 921-2370.

Student Information Center

The Rock Valley College Student Information Center is located in the heart of campus on the first floor of the Student Center. In addition to providing information on campus locations, services, and activities, the Information Center provides services including:

- Getting Started
- Applications for admission
- Student ID issued (photo ID required)
- Check cashing (up to \$10)
- Mail services buy a stamp or drop off campus or U.S. mail
- Ticket sales for student events
- Assistance using RVC Online Services
- Vending refunds (three day return policy)

To contact the Information Center, call (815) 921-INFO.

Testing Center

RVC's Testing Center serves as the central location on campus for the administration of testing programs and services provided to students and community residents. Services include: placement testing for all new students; Internet (INT), Telecourse (TC), and make-up exams; College Level Examination Program (CLEP) testing; testing accommodations for students with disabilities, and certification tests in conjunction with Certiport/Microsoft, ETS/Praxis, Pearson VUE and others. Students enrolled in post-secondary, online/distance learning programs, RVC/NIU programs or Illinois Virtual Campus (IVC) courses may also complete testing in the center. For more information, phone (815) 921-2380 or visit the website

www.rockvalleycollege.edu/testing.

Rights and responsibilities

The RVC campus is a collegiate society with rules and regulations that respect and protect the rights of both individuals and the campus community. The following policies and procedures establish both the rights and the responsibilities of Rock Valley College students.

A complete copy of each policy or procedure is available in the RVC Student Handbook. This catalog should not be construed as constituting a contract between the college and any person. The college reserves the right to modify its policies.

The Student Code of Conduct is available in the Enrollment Management and Judicial Affairs office and on the RVC Web site, and Student Center Hub.

Academic honesty

The faculty and administration expect that RVC students are enrolled in courses as serious and honorable scholars. Furthermore, students are expected to do their own original work, except when collaboration on projects is directed by faculty as part of the course or specific assignment. Students are expected to observe the commonly accepted standards of academic honesty at all times. Students who commit any of the forms of academic dishonesty (plagiarism, cheating by copying, dishonest collaboration, or fabrication) as outlined in the Academic Honesty Standards and Procedures found in the Student Handbook are subject to penalties and sanctions.

Attendance requirement

Students are expected to attend every class meeting. There is no college policy permitting absences. Each faculty member will decide when and how absences affect grades.

Campus security report

This report includes statistics for the previous three years concerning reported crimes that occurred on campus; in certain off-campus buildings or property owned or controlled by Rock Valley College; and on public property within, or immediately adjacent to and accessible from, the campus. The report also includes institutional policies concerning campus security, such as alcohol and drug use, crime prevention, the reporting of crimes, sexual assault, and other matters. The complete report is available at www.rockvalleycollege.edu/publicsafety.

Individuals may also request a paper copy of this report by contacting the Public Safety Department at (815) 921-4357 or by visiting the department in the Support Services Building.

Sex Offender List

The Rock Valley College Police Department maintains a registered sex offender list, which identifies all known registered sex offenders who are students, contractors, and/or employees at Rock Valley College. This sex offender list is available for viewing at the Rock Valley College Police Department located in the Support Services Building (SSB) or at the Information Center on the first floor of the Student Center. Sex offenders who fail to register their status as a student or employee at an institution of higher education are in violation of the Registration Act and face arrest. In addition to registering with RVC Police Department, students must also meet with the Director of Enrollment & Judicial Affairs.

Children on campus

For the safety of children on campus, children may not accompany students to class, tutoring or testing sessions. Also, children may not be left unattended on the campus grounds, whether in college buildings, extension centers or at any college event.

Computer use policy

All Rock Valley College computer hardware and software may be used only in accordance with established rules and procedures. It is the responsibility of all users of the Rock Valley College computer systems to adhere to the Acceptable Use of Information Technology Systems Procedure for use of RVC information technology resources as outlined. See the complete policy posted in the RVC News on EdNet.

Discipline procedures

The Rock Valley College Judicial Affairs system has the right to impose disciplinary sanctions and/or corrective actions for a student found guilty of violating the RVC student code of conduct, college regulations, and/or college policies. Students may also be subject to civil or criminal penalties as appropriate.

Drug-free campus policy

The college intends to conform fully with the federal Drug-Free Workplace Act of 1988, 41 USC Section 701 et seq., the Illinois Drug-Free Workplace Act, 30 ILCS 580/1 et seq. and the federal Drug-Free Schools and Communities Amendments Act of 1989, 20 USC Section 3171 et seq.

By establishing this procedure, the college seeks to improve the work environment as well as the campus atmosphere by eliminating drugs and alcohol in the workplace and on the college campus, except where liquor permits have been procured or alcohol is utilized for instructional purposes.

Family Educational Rights and Privacy Act

The following notice and information is given by Rock Valley College, District 511, to advise students of their rights under the Family Educational Rights and Privacy Act of 1974 (The Act). Rock Valley College has implemented policies and procedures implementing the Act. The Act established the right of students to inspect and review their educational records; provides that personally identifiable information will not, with certain exceptions, be disclosed without the student's written permission; provides for guidelines for correction of inaccurate or misleading data through informal or formal hearings; grants students the right to file complaints with the Family Compliance Office concerning failures of the college to comply with The Act; and makes provisions for notice to the students concerning those rights.

Students who wish to review their education records must complete the appropriate form and submit it to the Registrar. Students will be notified in writing of the date and time they may review the records.

The following student data is hereby designated as Directory Information and such information may be disclosed or released by the college for any purpose and at its discretion: student name, dates of attendance, parttime/full-time enrollment status, degrees/certificates earned, awards received, officially recognized activities, weights and heights of members of athletic teams, and student e-mail addresses. To have directory information withheld, the student must give written notice to the Registrar by the tenth day of each semester for which the student is enrolled.

A student may give permission to a parent, guardian, or other individual to review their record. A FERPA waiver form is available in the Records and Registration office. Contact the Registrar for FERPA related questions.

Procedure for resolution of student complaints

Students may encounter problems during their course of study at RVC that may require review by appropriate administrative or academic personnel. The college has established procedures. Questions or guidance regarding these procedures should be directed to the office of Enrollment Management and Judicial Affairs, (815) 921-4284. The procedures are also available in the Student Handbook.

Student assembly policy

Although students are welcome to gather to express and discuss ideas, all such assemblies must be held in accordance with the policy on student assembly.

Student Right-to-Know information

Graduation and transfer rate information is available from the Office of Institutional Research, Woodward Technology Center. or via www.rockvalleycollege.edu/strk. Report on athletic participation rates and financial support data is available from the Associate Dean's office in the PEC.

TRANSFER DEGREES

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TRANSFER DEGREES

TRANSFER DEGREES

The Associate of Arts (A.A.), the Associate in Science (A.S.), the Associate in Engineering Science (A.E.S.), and the Associate of Arts in Teaching (A.A.T.) degrees are intended for students planning to transfer to a four-year college or university for a baccalaureate degree. However, since requirements can vary from one institution to another, it is recommended that students meet regularly with an academic advisor as well as verify information with the transfer institution. (Students should consult a counselor or program coordinator regarding the growing transfer possibilities with the Associate in Applied Science degrees.) Also, the Planning for Success and General Education Core Curriculum information beginning on page 32 provides additional educational planning information.

ASSOCIATE IN ARTS DEGREE (A.A.) (RVC CURRICULUM #1000)

This degree is for students who plan to major in liberal arts disciplines such as art, criminal justice, education, English, foreign language, geography, history, music, philosophy, physical education, political science, psychology, sociology, social work, speech and theater.

ASSOCIATE IN SCIENCE DEGREE (A.S.) (RVC CURRICULUM #1700)

This degree is for students who plan to major in a science-related disciplines such as biology, chemistry, computer science, dentistry, geology, mathematics, medicine, medical technology, pharmacy, occupational and physical therapy, physics, and veterinary medicine. It can also be used for transfer business majors such as accounting, business administration, finance, and human resources.

THE ASSOCIATE IN ENGINEERING SCIENCE (A.E.S.) (RVC CURRICULUM #1775)

This degree is designed to provide students a transition to a four-year baccalaureate engineering degree program. Students who complete the A.E.S. degree can transfer to an engineering program to complete a Bachelor of Science degree depending upon the requirements of the transfer institution. Students may need to complete additional program engineering prerequisites at the transfer school.

THE ASSOCIATE IN ARTS IN TEACHING - SECONDARY MATHEMATICS (A.A.T.) (RVC CURRICULUM #1400)

This degree allows students interested in teaching mathematics at the secondary level the opportunity to complete the first two years of college course work at Rock Valley College in preparation for transferring to a four-year institution. Because of teacher certification requirements, the transfer school requirements at colleges and universities, and RVC graduation requirements, students must meet with an advisor as soon as they declare this as their program of study.

THE ASSOCIATE IN GENERAL STUDIES (A.G.S.) (RVC CURRICULUM #0100)

The Associate in General Studies degree is designed primarily for students who have chosen to pursue a broad general program rather than a specific occupational-oriented or baccalaureate-oriented program. This degree is not designed to transfer to a four-year institution and general education requirements do not meet IAI General Education Core Curriculum guidelines.

The Illinois Articulation Initiative (IAI)

Rock Valley College is a participant in the Illinois Articulation Initiative (IAI), a statewide agreement that makes it easier for students to transfer credit between more than 100 participating Illinois colleges and universities. The initiative includes an agreed-upon Illinois General Education Core Curriculum (GECC) and recommended freshman and sophomore level courses for specific majors in the Illinois Baccalaureate Majors' curricula. To achieve this goal the IAI has identified courses which all participating institutions agree to offer to their students and to accept in transfer from students who come from other institutions.

Completion of the general education core curriculum at any participating institution in Illinois assures transferring students that lower-division, general education requirements for an Associate in Arts or Associate in Science have been satisfied upon transfer to another participating institution.

Receiving institutions may require admitted transfer students to complete institution-wide and/or mission related graduation requirements beyond the scope of the IAI GECC.

The IAI is a powerful tool for students. General and detailed information about the IAI is available at www.itransfer.org.

General education core curriculum (GECC)

The requirements for an associate's degree (A.A., A.S. A.E.S., A.A.T, or A.A.S.) consist of a minimum of 64 credit hours taken from three components: 1. General education core, 2. Additional degree requirements, and 3. Courses taken in the major/minor field and electives. Students who wish to transfer to four-year colleges and universities are advised to complete an associate's degree. If transfer is necessary prior to completing an associate's degree, students are strongly advised to complete at least the general education core curriculum.

Rock Valley College, like most other Illinois community colleges, has specific degree requirements for the Associate in Arts transfer degree, and other requirements for the Associate in Science transfer degree; these are described in detail beginning on page 34 of this catalog. The IAI GECC of 37-41 credits consist of study in the following areas:

Communications	9 credits
Mathematics	3-6 courses
Physical and Life Sciences	7-8 courses
Humanities and Fine Arts	9 courses
Social Sciences	9 courses

Majors courses

At Rock Valley College as many as 14-21 credits within the associate degrees (A.A. and A.S.) may be used by students to explore a particular field of study or major. Those who plan to transfer to baccalaureate-granting institutions, however, have in the past encountered problems from senior institutions. Students should schedule an appointment to meet with the Transfer & University Coordinator to discuss course selection. Students should also consult www.itransfer.org for up-to-date listings of Rock Valley College courses which will count in the majors at other Illinois colleges and universities. Other lower division courses in the discipline which are not specifically identified as fulfilling requirements in the major at other Illinois colleges and universities may also be appropriate, and students may wish to explore these courses as a way of solidifying their true interest in a given field of study or major. However, these other courses will not routinely transfer; students will have to contact the senior institutions on an individual basis to determine transferability.

Selecting the IAI general education and majors courses

Students will find a concise listing of general education core curriculum requirements for the A.A. and A.S. degrees beginning on page 33. In addition, they should consult www.itransfer.org for accurate updates on these requirements.

Students should also consult a Rock Valley College counselor/advisor for assistance in making correct course selections.

ROCK VALLEY COLLEGE EDUCATION GUARANTEE PROGRAM

University Transfer Guarantee

Rock Valley College guarantees that courses approved for transfer to another college will be honored either as program requirements or electives. If transfer courses are not accepted after all provisions of the University Transfer Credit Guarantee are followed, the college will allow the student to take additional Rock Valley College courses up to the number of credits not transferred without charge for tuition and fees. TRANSFER DEGREES

Planning For Success

Transfer Planning

By carefully constructing an educational plan, students can select Rock Valley College courses for transfer to a variety of four-year colleges and universities. When a student has selected a transfer school, it is important that the student review that institution's **specific admission and course requirements.** Transfer information can be obtained in the Transfer Center.

EACH STUDENT IS RESPONSIBLE FOR GRADUATION REQUIREMENTS:

- Complete a minimum of sixty-four (64) credit hours of 100 level courses or above that also meet the requirements of the General Education Core Curriculum.
- Achieve a **2.0** (C) grade point average in all 100/200 level courses attempted at Rock Valley College.
- Meet residency requirements by earning a minimum of **twenty** (20) semester hours of 100/200 level at Rock Valley College.

Apply for graduation in Records & Registration on 2nd floor of Student Center by published dates of semester intended to graduate.

March 1 - Last day to apply for Spring graduation June 1 - Last day to apply for Summer graduation October 1 - Last day to apply for Fall graduation

Additional Resources

- Academic Advising and Counciling
- Student Center, Top Floor, (815) 921-4100
- Academic Advising Personal Counseling
- Career Assessment
- Transfer Center & Student Multicultural Initiatives Student Center, Top Floor, (815) 921-4116
- Transfer Advising Visits to State
 - Universities
- Student Life Student Center, 1st Floor, (815) 921-4184
 - Student Government Student Organization
- Campus Activities Leadership Development
 - & Training
- Success Center Student Center, Ground Floor, (815) 921-2370
- Tutoring Services
- Disability Services

- Special Needs Services

- Student Center, Top Floor, (815) 921-2356
- Testing Center
- Student Center, Ground Floor, (815) 921-2380
- Exam Proctoring Placement Testing
- Other testing programs/services
- Career Services & Placement Student Center, Top Floor, (815) 921-4091
- Employment Career Counseling
- Opportunities Career Assessments
- (resume writing, interviewing, etc.)
- First Year Experience and
- New Student Programs Student Center, Top Floor, (815) 921-4094
- Educational Planning Session
- New Student Orientation
- STU 100 Planning for Success

Associate of Arts/ Associate in Science Degrees

(Total Hours Required: 64)

I. GENERAL EDUCATION Core Curriculum (37 credit hours total)

Communications (9 credits)

Students whose first semester of postsecondary education is Summer 1999 or later must receive grades of "C" or higher in ENG 101 and 103.

 @	ENG 101	Composition I	.3
 @	ENG 103	Composition II	.3
	SPH 131	Fundamentals of Communications	.3

Mathematics (3-6 credits)

(Both MTH 216 and 217 must be satisfactorily completed to fulfill the three-hour mathematics requirement. This two-course sequence fulfills the general education requirement only for students seeking state certification as elementary teachers.)

0	v ,	
 MTH 115	General Education Math	. 3
 MTH 135	Calculus I	.5
 MTH 160	Topics from Finite Math	. 3
 MTH 211	Calculus for Business/Social Sciences	. 4
 MTH 217	Math for Elementary Teaching II	. 3
MTH 220	Elements of Statistics	. 3
 MTH 235	Calculus II	.4
MTH 236	Calculus III	.4

Physical & Life Sciences (7 credits)

Note: Select at least one Life Science and one Physical Science course. At least one of the two courses must have a lab.

LIFE SCIENCES:

 BIO 100	Introduction to Human Biology
 BIO 103	Introductory Life Sciences
 BIO 104	Introductory Life Sciences lab1
 BIO 106	Introductory Environmental Life Science 3
BIO 107	Introductory Environmental
	Life Science lab 1
BIO 140	Introduction to Evolution
BIO 150	Microbes & Society
 BIO 162	Human Heredity
 BIO 208	Science in Elem, School: Tchg, Evolution 3
 BIO 211	General Botany
 BIO 221	General Zoology 4

PHYSICAL SCIENCES:

 AST 202	Introduction to Astronomy 4
 ATS 105	Introduction to Atmospheric Science4
 CHM 105	Foundations in Chemistry
	Non-Science Majors
CHM 110	General, Organic & BioChemistry I 4
 CHM 120	General Chemistry I
 CHM 210	General, Organic & BioChemistry II4
 GEL 101	Introduction to Geology
 GEL 103	Fossils and Earth History
 GEL 107	Geology of the Solar System
 GEL 206	Environmental Geology
 PGE 100	Physical Geography
 PGE 102	Physical Geography w/ Lab 4
 PHY 201	Mechanics and Heat 4
 PHY 215	Mechanics Wave Motion &
 1 111 210	Thermodynamics

Social & Behavioral Sciences (9 credits) Note: Select courses from at least two areas.

A

ANT	HRO.	POLOGY:	
		ANP 102	Introduction to Physical Anthropology3
	#	ANP 103	Introduction to
			Cultural Anthropology
ECO	NOM	ICS:	
		ECO 101	Introduction to Economics
		ECO 110	Principles of Macroeconomics
		ECO 111	Principles of Microeconomics
GEO	GRA	PHY:	
	#	GEO 130	World Regional Geography
HIST	ORY	:	
		HST 140	History of Western Civilization I
		HST 141	History of Western Civilization II
		HST 142	History of the U.S. to 1865
		HST 143	History of the U.S. Since 1865
	#	HST 151	African History Survey to 1600
	#	HST 152	African History Survey Since 16003
	#	HST 162	History of Latin American I

#	HST 162	History of Latin American I
#	HST 163	History of Latin American II
#	HST 172	History of the Middle East I
#	HST 173	History of the Middle East II
#	HST 182	History of Eastern Civilization to 15003
#	HST 183	History of Eastern Civilization Since 1500 3
#	HST 192	History of the World until 1750
#	HST 193	History of the World since 1750

POLITICAL SCIENCE:

	PSC 160	American National Government	5
	PSC 161	State and Local Government	5
#	PSC 269	International Relations	;

PSYCHOLOGY:

•	PSY 170 PSY 225 PSY 270 PSY 275	General Psychology
	101210	boeiar i byenology

SOCIOLOGY:

	SOC 190	Introduction to Sociology	3
	SOC 290	Social Problems	3
 #	SOC 295	Racial and Ethnic Relations	3
	SOC 298	Sociology of Sex and Gender	3
	SOC 299	Marriage and the Family	3

Humanities/Fine Arts (9 credits)

Note: Select at least one course from both the Humanities and Fine Arts areas.

HUMANITIES:

	FRN 204	Intermediate French II
	GRM 204	Intermediate German II
	LIT 139	Mythology
	LIT 140	Bible as Literature
	LIT 142	Introduction to Poetry
	LIT 143	Dramatic Literature
	LIT 144	Introduction to Fiction
	LIT 201	American Lit: Colonial to Civil War3
	LIT 202	American Lit: Civil War to Present3
	LIT 205	British Literature to 1800
	LIT 206	British Literature 1800 to Present3
	LIT 210	Woman Writers: The Early Years3
	LIT 211	Woman Writers: The Twentieth Century .3
	LIT 241	Shakespeare
	LIT 243	World Literature Through 1800
	LIT 244	World Literature Since 1800
#	LIT 251	Non-Western Literature Before 1800 3
#	LIT 252	Non-Western Literature Since 1800 3
#	LIT 260	Contemporary African Literature 3

TRANSFER DEGREES

	LIT 273	French Literature in Translation3	
	LIT 274	Spanish Literature in Translation3	
	LIT 275	Latin American Literature in Translation 3	
	PHL 150	Introduction to Philosophy	
	PHL 154	Introduction to Religion	
#	PHL 155	World Religions	
	PHL 156	Religion in American Society	
	PHL 157	Foundational Religious Texts	
	PHL 255	Logic	
	PHL 256	Contemporary Moral Issues	
	PHL 260	Philosophy of Religion	
	SPN 204	Intermediate Spanish II	
FINE ARTS:			
FINE	ARTS:		
FINE	ARTS: ART 131	Introduction to the Visual Arts3	
FINE	ARTS: ART 131 ART 141	Introduction to the Visual Arts	
FINE #	ARTS: ART 131 ART 141 ART 251	Introduction to the Visual Arts	
FINE # 	ARTS: ART 131 ART 141 ART 251 ART 252	Introduction to the Visual Arts	
FINE #	ARTS: ART 131 ART 141 ART 251 ART 252 ART 253	Introduction to the Visual Arts3Introduction to Nonwestern Visual Art3History of Art I3History of Art II3	
FINE # #	ARTS: ART 131 ART 141 ART 251 ART 252 ART 253 COM 251	Introduction to the Visual Arts	
FINE # #	ART 15: ART 131 ART 141 ART 251 ART 252 ART 253 COM 251 COM 252	Introduction to the Visual Arts	
FINE # #	ART S: ART 131 ART 141 ART 251 ART 252 ART 253 COM 251 COM 252 HUM 117	Introduction to the Visual Arts3Introduction to Nonwestern Visual Art3History of Art I3History of Art II3History of Art II3Film History and Appreciation3International History of Film3Ethnic Traditions in American Theatre3	
FINE	ART 15: ART 131 ART 141 ART 251 ART 252 ART 253 COM 251 COM 252 HUM 117 HUM 210	Introduction to the Visual Arts3Introduction to Nonwestern Visual Art3History of Art I3History of Art II3History of Art II3Film History and Appreciation3International History of Film3Ethnic Traditions in American Theatre3Cultural Expression of Gender in	
FINE	ART 131 ART 141 ART 251 ART 252 ART 253 COM 251 COM 252 HUM 117 HUM 210	Introduction to the Visual Arts3Introduction to Nonwestern Visual Art3History of Art I3History of Art II3History of Art II3Film History and Appreciation3International History of Film3Ethnic Traditions in American Theatre3Cultural Expression of Gender inVisual and Performing Arts3	
FINE #	ART IS: ART 131 ART 141 ART 251 ART 252 ART 253 COM 251 COM 252 HUM 117 HUM 210 LIT 141	Introduction to the Visual Arts3Introduction to Nonwestern Visual Art3History of Art I3History of Art II3History of Art II3Film History and Appreciation3International History of Film3Ethnic Traditions in American Theatre3Cultural Expression of Gender inVisual and Performing Arts3Film as Literature3	
FINE #	ART S: ART 131 ART 141 ART 251 ART 252 ART 253 COM 251 COM 252 HUM 117 HUM 210 LIT 141 MUS 102	Introduction to the Visual Arts	

	ART 131	Introduction to the Visual Arts
 #	ART 141	Introduction to Nonwestern Visual Art 3
	ART 251	History of Art I
	ART 252	History of Art II
	ART 253	History of Art II
	COM 251	Film History and Appreciation
	COM 252	International History of Film
	HUM 117	Ethnic Traditions in American Theatre 3
	HUM 210	Cultural Expression of Gender in
		Visual and Performing Arts
	LIT 141	Film as Literature
	MUS 102	Introduction to Music Literature
	MUS 104	Introduction to American Music
 #	MUS 106	Introduction to Non-Western Music3
	MUS 251	Music Literature I
	MUS 252	Music Literature II
	MUS 253	Music Literature III
	THE 133	Introduction to Theatre

INTERDISCIPLINARY HUMANITIES AND FINE ARTS:

Interdisciplinary humanities courses that encompass both the humanities and the fine arts may be used for either humanities or fine arts credit.

	HUM 111	Introduction to Humanities I
	HUM 112	Introduction to Humanities II
	HUM 114	Introduction to Humanities III
#	HUM 120	Hispanic Caribbean Cultural Expression 3
	HUM 121	U.S. Latino/Latina Cultural Expression 3
	HUM 122	Spanish Cultural Expression
#	HUM 125	Introduction to Non-Western Humanities 3
	HUM 211	War & West. Humanities Thru Middle Ages . 3
	HUM 212	War & West. Humanities:
		Renaissance to Present

HUM 111, 112, 114, 120, and 122 and 125 will count as either Humanities or Fine Arts, but not as both. (You will earn 3 credits per course, not 6.)

KEY:

Non-Western Culture (one course required) @ Must earn minimum of "C"

II. ADDITIONAL REQUIREMENTS

For the A.A. degree, students need to complete the following:

- Humanities and Fine Arts 3 credits Select from: Any course listed as an IAI approved humanities or fine art course and/or ART 246; MUS 121; FRN, GRM, SPN; PHL; LIT; HUM 115, or 250.
- Social and Behavioral Sciences 3 credits Select from: Any course listed as an IAI approved social and behavioral science course and/or ECO, EDU 224, GEO, HST, PSY, or SOC.
- Non-western Culture one course Select from: Any course listed as an IAI approved Non-Western Culture course as indicated by (#) or SPH 202.
- Electives (14-21 additional credits)

OR

For the A.S. degree, students need to complete the following:

• Mathematics – additional credits for a total of 8 Select from: Any course listed as an IAI approved mathematics course and/or any other math course (MTH) numbered 101 or above.

NOTE: If needed, it is strongly recommended that students complete all calculus courses at the same institution.

• Physical and Life Sciences – additional credits for a total of 16

(*Ex: 2 BIOS or 2 CHM)

*2 courses with labs from the same discipline

Select from: Any course listed as an IAI approved life or physical science course and/or any course from AST, ATS, BIO, CHM, GEL, PGE, or PHY.

- Non-Western Culture one course
- Select from: Any course listed as an IAI approved NWC course as indicated by (#) or SPH 202.
- Electives (10-13 additional credits)
- ** Disclaimer: This is only a tool that will be updated periodically. Please check with Counseling for updates.

Information on the IAI on the Web at www.itransfer.org

TRANSFER DEGREES

Electives for A.A. and A.S. Degree completion

The electives taken at RVC may serve as prerequisites for majors at baccalaureate institutions. For examples of popular majors and appropriate elective courses, see the lists below. These lists are not meant to be exhaustive of all prerequisites. Students should meet with an advisor or counselor to verify course selection based on major and transfer institution. Students should also check with the college or university they plan to transfer to and confirm course selection. If you are planning to transfer to a fouryear institution for a specific major, check with the Transfer Center for suggested alternatives.

Popular majors

Accounting – See Business

Art (i.e., Fine Arts, Studio Arts, Graphic Arts, Art Education, Art History, etc.) ART 101, 102, 103, & 203; studio courses* ART 251, 252, & 253 will count as humanities/fine arts courses *Other studio courses may be required prior to transfer; see specific transfer institution for additional information.

Business (i.e., Accounting, Administration, Finance, Management, Marketing, etc.)
BUS 101, 200 or 201 & 223 (students should check to see if transfer institution prefers Bus 200 or 201).
ATG 110 & 111; students without accounting experience should take ATG 106 & 107 prior to taking ATG 110.

Computer Programming (i.e., General, Applied, Theoretical, etc.) CIS 102, 276, & 277; other programming courses may transfer to select colleges and universities.

Criminal Justice

CRM 101, 120, 210, 225, CIS 102

Elementary Education (i.e., teaching certificate for K – grade 9)

EDU 224*, 234, 244, & 274 PSY 271 FWS 223, FWS 265 ART 283 or MUS 105 *Some transfer institutions will count EDU 224 as an elective only.

Engineering (i.e., Mechanical, Electrical, Industrial, Chemical, etc.)

EGR 135, 206, 207, 221, & 231; check pre-requisites for appropriate course placement.

CIS 276 or MTH 164 is usually required of engineering majors.

Journalism/Mass Communication (i.e., Media Studies, Communication Studies, etc.)

COM 130, 156, 157, 256, 257, & 297 for Mass Comm. majors. COM 130, JRN 105, 110, 122, 123, 135, 139, 146, 205 & 210 for Journalism majors.

See transfer institution guidelines for most appropriate course selection.

Music (i.e., Performance, Education, Composition, etc.) MUS 101, MUS 123 - 130*, 131, 132, 143, 144; *Applied lessons--see course descriptions and music instructors to determine best placement/selection.

MUS 111, 112, 211, & 212; Required music theory courses must be taken sequentially.

MUS 191, 192, 194, 195, 198, 291, 292, 294, 295, 298; Performance courses - may be repeated for additional credit. MUS 251, 252, & 253 - Music literature courses count as humanities/fine arts courses.

Nursing (Bachelor of Science degree) FWS 237 CHM 110, CHM 120* CHM 210 BIO 185 or 281 and 282* BIO 274 *Prospective nursing majors should check with their intended transfer institution for specific course requirements.

Fitness, Wellness & Sport (i.e., Exercise Science, Health Education, Athletic Training, Sports Management, Physical Education T eaching, etc.)

FWS – Activity courses numbered 100-199 are designed to enhance physical development and allow for participation in movement activities.

(A maximum of three credit hours can be used toward graduation.)

FWS – Professional development courses numbered 200-299 are designed to provide course work that supports a student's chosen career path within the varying Fitness, Wellness and Sport academic disciplines. Check with the transfer institution for specific course requirements. Also check www.rockvalleycollege.edu/fws for suggested courses for select majors.

Theatre (i.e., Theatre Studies, Performing Arts, Set Design, etc.)

THE 134, 135, 136, 137, 234, 235, 236, & 237; Theatre Practicum courses also exist; check with the transfer institution for additional information.

THE 133 will count as a humanities/fine arts course.
TRANSFER DEGREES

ASSOCIATE OF ARTS IN TEACHING – SECONDARY MATHEMATICS # 1400

DEGREE CONFERRED: Associate of Arts in Teaching – 64 credits

PROGRAM CONTACT: Teacher Education Programs (815) 921-3471

Program overview:

The Associate of Arts in Teaching - Secondary Mathematics Degree prepares students for careers in the high need teaching discipline of secondary education mathematics. This program is different from the A.A. and A.S. degree in that it provides students an opportunity to gain valuable experience being in the classroom and to help validate the student's decision to pursue a career in teaching math at an earlier stage of their academic plan. Students may obtain this degree from Rock Valley College by successfully completing the 64 credits outlined below and by meeting the graduation requirements. Students obtaining an A.A.T. degree in Secondary Mathematics should have equal status with state of Illinois university native students at the beginning of the junior year. Students should be aware that admission to teacher education programs is competitive and generally includes a minimum grade point average determined by the transfer institution. Students should declare the A.A.T. major and consult with an academic advisor as soon as possible in their enrollment. Students should also consult the college catalog and transfer guides for their intended transfer institution for any additional requirements.

Rock Valley College is a participant in the Illinois Articulation Initiative (IAI). This is a program to ease the transfer for students from 2-year or 4-year colleges/universities to 4-year colleges/universities in Illinois. The 64 credit hours needed for the AAT Degree contain the IAI core.

NOTE: Students seeking an AAT degree in Secondary Mathematics must also meet the following requirements for graduation:

Basic Skills Test: Students must earn a passing score on the Illinois Certification Testing System (ICTS) Basic Skills Test in order to earn the A.A.T. degree. It is recommended that students take the Basic Skills Test prior to their accumulation of 45 semester hours of credit and indicate both Rock Valley College and the intended transfer institution as receiving institutions on the application for the test. Students are responsible for ensuring that an official score report is on file in the RVC Records Office prior to the graduation deadline.

36 The GPA for the A.A.T. degree must be at or above 2.5.

major	00010	(i	i oroanco,
* MTH	235	Calculus with Analytic Geometry II	(4)
* MTH	236	Calculus with Analytic Geometry III	(4)
* MTH	250	Linear Algebra	(3)
		0	
Suppo	rting (Course Requirement (4 credits)
(Choos	e 1 of t	he following 2)	
* CIS	276	Introduction to C/C++ Programming, or	(4)
* MTH	164	The Computer in Mathematics $- C/C++$	(4)
Profes	sional	Education Course Requirements (9 credits)
EDU	224	Introduction to Education	(3)
(Choos	e 2 of t	he following 3)	
EDU	234	Introduction to Technology for Teachers	(3)
EDU	244	Students With Disabilities in Schools	(3)
* PSY	271	Educational Psychology	(3)
Genera	al Edu	cation Course Baguirements (A	0 credite
Requir	ed cou	rses (31 credits)	o creans,
* DMG			(0)
* ENG 1	101 Cor	nposition I	(3)
* ENG 1	103 Cor	nposition II	(3)
* SPH I	31 Fun	damentals of Communication	(3)
BIO IC	J3 Intro	ductory Life Science, or	(0)
BIO IC	J6 Envi	ronmental Science	(3)
* MTH .	135 Cal	culus with Analytic Geometry I	(5)
* PHY 2	15 Mec	chanics, Wave Motion and Thermodynamics	; (5)
PHL 2	55 Logi	C	(3)
PSY I'	10 Gene	eral Psychology	(3)
* PSY 2	25 Chil	d Development	(3)
General	Educa	tion Electives	(9 credits)
*Please	Note:	For the General Education electives lis	ted below,
three c	redit h	ours must be associated with a non-we	stern cul-
ture co	urse (†	# = non-western).	

(11 credite)

Humanities/Fine Arts: 6 credit hours

Major Course Requirements

Humanities: *FRN 204, *GRM 204, *SPN 204 *LIT 139, *140, *142, *143, *144, *201, *202, *205, *206, *210, *LIT 211,*241, *243, *244,* (#)251, *(#)252, *(#)260,*273,*274, *275 PHL 150, 154, (#)155, 156, 157, 256 Fine Arts: ART 131, 141, 251, 252, 253 COM 251, 252 HUM 117 210 LIT 141 MUS 102, 104, (#)106, 221, 222 **THE 133** Interdisciplinary Humanities and Fine Arts: These courses encompass both the humanities and the fine arts and may be used for either humanities or fine arts credit. HUM 111, 112, 114, (#)120, 121, 122, 125, 211, 212

Social & Behavioral Sciences (except Psychology): 3 credit hours: Anthropology: ANP 102, 103 Economics: ECO 101, 110, 111 Geography: GEO 130 History: HST 140, 141, 142, 143, (#)151, (#)152, (#)162, (#)163, (#)172, (#)173, (#)182, (#)183, #)192, HST (#)193 Political Science: PSC 160, 161, (#)269 Sociology: SOC 190, *290, (#)*295, *298, *299

*Course has a prerequisite—refer to course description section in this catalog.

ASSOCIATE IN ENGINEERING SCIENCE (A.E.S.) DEGREE #1775

Degree Requirements for Associate in Engineering Science (A.E.S.)

The following sections list the program requirements to earn an Associate in Engineering Science degree at Rock Valley College. This degree is designed to provide graduates a smooth transition to a four-year baccalaureate engineering degree program. A.E.S. graduates' ability to complete a Bachelor of Science (BS) degree in an additional two years of full-time study. This depends in large part on the requirements of the four-year institution. The student should identify his/her engineering major and target institution as soon as possible. The RVC Engineering Department (815) 921-3101 would be happy to discuss your decision, choices, and most effective options. Students who are unsure of a major in engineering may wish to pursue an Associate in Science (AS) degree. Although students completing an AS degree can complete all of the general education requirements at Rock Valley College, they may be required by the program prerequisites at the transfer school to take three years to complete the baccalaureate engineering program.

I. College Requirements

- A. Semester Hours
 - A minimum of 65 credit hours completed as specified in the following sections.
- B. Grade-Point
 - A minimum cumulative grade-point average of 2.0 ("C" average) in all course work taken
 - A "C" or better in each engineering specialty course and elective

II. General Education Requirements

The completion of the AES degree does not fulfill all general requirements of the Illinois Articulation Initiative (IAI) General Education Core Curriculum. Consequently, students must complete the remainder of their general education requirements at the institution to which they transfer. Given the rigor associated with most four-year engineering programs, this helps to provide students with more balanced semester course loads during their junior and senior years.

(A.E.S.) General Education Core

22 credits 9 credits

A.E.S. Communications: • ENG 101 - Composition I – 3 Credits

• ENG 103 - Composition II – 3 Credits

• SPH 131 - Fundamentals of Communication – 3 Credits

A.E.S. Social & Behavioral Sciences/Humanities & Fine Arts: 9 credits (Please see page 33 for complete list of General Education Core Curriculum - IAI approved courses.)

NOTE: Students are encouraged to complete a two-semester sequence in either the Social and Behavioral Sciences or the Humanities and Fine Arts categories. The Associate in Engineering Science (A.E.S.) requires only 22 general education credits. Students will complete general education credits at the transfer institution. 2009 - 2011 Catalog

Students who plan on majoring in Industrial Engineering are required to take (IAI: S3 902) ECO 111- Principles of Economics:Micro. ECO-111 is permissible, but not required, for all other engineering majors.

Students are required to select 1 course in either the Humanities and Fine Arts or the Social and Behavioral Sciences that emphasizes non-Western cultures of minority cultures within the United Sates.

A.E.S. Physical Science:

• CHM 120 – General Chemistry I – 4 Credits

A.E.S. Engineering Specialty Courses 32 Credits

The following courses are required for all students seeking the AES degree, regardless of the specific major branch of engineering desired

A.E.S. Calculus-based Physics:

10 credits

20 credits

2 credits

11 - 13 Credits

4 credits

- PHY 215 Mechanics, Wave Motion, and Thermodynamics - 5 Credits
- PHY 225 Electricity, Magnetism, Light, and Modern Physics – 5 Credits

A.E.S. Mathematics:

- MTH 135 Calculus with Analytic Geometry I 5 Credits
- MTH 235 Calculus with Analytic Geometry II 4 Credits
- MTH 236 Calculus with Analytic Geometry III 4 Credits
- MTH 240 Differential Equations 3 Credits
- MTH 164 The Computer in Mathematics, C/C++ 4 Credits

A.E.S. Engineering & Technology:

• EGR 101 - Introduction to Engineering - 2 Credits

A.E.S. Engineering Electives

The selection of the appropriate elective engineering courses to meet this requirement will depend on the student's desired major/engineering discipline and the specific requirements of the intended transfer institution. Electives should be determined in consultation with an engineering advisor.

The abbreviations given below indicate the primary engineering disciplines from which the students may select a major field; the elective courses listed below appropriate to that discipline are marked with this abbreviation.

- Civil Engineering (CE) 13 credits
- Electrical/Computer Engineering (EE) 11 credits
- Industrial Engineering (IE) 12 credits
- Chemical Engineering (ChE) 12 credits
- Mechanical Engineering (ME) 13 credits

NUMBER	СН	DISCIPLINE
EGR 135	4	CE ME
EGR 206*	3	CE IE ME
EGR 207*	3	CE IE ME
EGR 221*	3	CE IE ME
EGR 231*	3	EE
ECO 135	4	EE
ECO 111	3	IE
CIS 276*	4	EE
CHM 130	4	ChE
CHM 220*	4	ChE
CHM 230	4	ChE
	NUMBER EGR 135 EGR 206* EGR 207* EGR 21* EGR 231* ECO 135 ECO 111 CIS 276* CHM 130 CHM 220* CHM 230	NUMBER CH EGR 135 4 EGR 206* 3 EGR 207* 3 EGR 221* 3 EGR 231* 3 ECO 135 4 ECO 111 3 CIS 276* 4 CHM 130 4 CHM 220* 4 CHM 230 4



TRANSFERRING

About transferring

Students who earn the Associate of Arts or Associate of Science (A.A. or A.S.) degrees at Rock Valley College before transferring may be granted junior standing by many baccalaureate institutions considering the general education requirements are completed. A few four-year colleges/universities may do a course-by-course examination of work from Rock Valley College, and expect students to complete some general education courses at their institution. As a general rule, earning an A.A. or A.S. degree is an excellent strategy for transfer.

Students who decide to transfer to another college in Illinois before they earn an A.A. or A.S. degree will find that IAI-approved courses will be generally accepted by most baccalaureate institutions. Transferring without completing the general education core curriculum may mean that students must complete the general education requirements at the senior institution.

Transferring from RVC

The Transfer and University Center at Rock Valley College offers information about transferring to baccalaureate institutions. For successful transfer, the following guidelines are recommended for all students who plan to transfer:

- 1. Investigate possible career paths at the Career Services and Placement Office at (815) 921-4091, through labor market information and career interest surveys
- 2. Plan RVC course selection with general education and introductory transfer courses in mind. The Advising and Counseling Center, (815) 921-4100, can assist in course selection. Transfer guides for many baccalaureate institutions are available. Because transfer requirements change frequently, verify all transfer information directly with the four-year college/university.
- 3. Examples of transfer program course guides are available in various department offices and/or on the college Web site.

- 4. Visit the Transfer and University Center, (815) 921-4103, to see available resources: Internet access, college-career search programs, applications, college catalogs and more.
- 5. Research possible four-year colleges/universities focusing on academic programs, entrance requirements, costs, deadlines for applications and transcript submission, and housing requirements.
- 6. Since admittance to a four-year college/university is based on the Rock Valley College grade point average (GPA) it pays to study. Many students are competing for limited seats in popular areas of study; GPA can either limit or broaden career options.
- 7. Visit campuses as time and resources permit. Virtual tours are accessible on the Internet. Many college representatives also come to campus for college night and throughout the year. The college visit schedule is available at the Transfer and University Center Web page and on EdNet.
- 8. At the beginning of a student's last semester at Rock Valley College, apply for graduation at Records and Registration. Even students who are not planning to attend the graduation ceremony need to apply for graduation.
- 9. When applying, send RVC transcript to the transfer institution via Online Services at www.rockvalleycollege.edu/onlineservices. Request transcript to be sent after each semester there is a grade posted at RVC.

BACCALAUREATE COMPLETION AGREEMENTS

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BACCALAUREATE COMPLETION AGREEMENTS

In addition to the Illinois Articulation Initiative (IAI) with the state universities for students who complete transfer degrees at Rock Valley College, the college also has written agreements with several baccalaureate completion institutions. Students may contact these institutions for more information about how they can finish their degree without leaving the Rock Valley College district. Call the Transfer and University Center at (815) 921-4116 for more information.

Embry-Riddle Aeronautical University-Worldwide

www.erau.edu/rockford E-mail: Chicago.rockford.center@erau.edu Aviation Management

George Williams College- Aurora University

350 Constance Blvd.

Williams Bay, WI 53191 • (262) 245-8587 www.aurora.edu/gwc • Special Education

- Recreation
- Business

Franklin University/Online Campus

- Columbus, OH (888) 341-6237
- Business Administration
- Health Services Administration
- Technical Administration
- Management Information System
- Computer Science
- Public Safety Management

Judson College

- Elgin, IL (815) 399-3500; (888) 537-6246
- Management and Leadership
- Human Services
- Human Resources Management
- Criminal Justice Management
- Management Technology Systems

National-Louis University

- Chicago, IL (800) 443-5522
- Bachelor of Arts
- Bachelor of Science
- Applied Behavioral Science
- Early Childhood Education
- Elementary Education
- Healthcare Leadership
- Management
- Management Information Systems

Northern Illinois University

DeKalb, IL

- www.niu.edu/offcampusacademics (866) 885-1239
- Aviation Management Technology
- Business Administration
- Computer Science
- Homeland Security certificates
- Industrial Management Technology
- Liberal Arts and Sciences
- Nursing R.N.-B.S.N. Completion Program
- Health and Human Sciences
- Undergraduate and Graduate Certificate in Geographic Information Systems

In addition, a Business Administration bachelor degree is offered at NIU-Rockford on State Street. Call (800) 892-3050 for more information.

Palmer College of Chiropractic

- Davenport, IA (800) 722-3648
- Bachelor of Science in General Science

Rockford College

- Rockford, IL (815) 226-4000
- Bachelor of Arts
- Bachelor of Fine Arts
- · Bachelor of Nursing
- Bachelor of Science

Saint Anthony College of Nursing

Rockford, IL • (815) 395-5091

• Bachelor of Science in Nursing

Saint Leo University/Online Campus

- Florida (888) 622-7344 • Accounting
- Accounting
 Business Administration
- Computer Information Systems

Southern Illinois University at Carbondale

Department of Aviation Management and Flight College of Applied Sciences and Arts Mailcode 6623 Carbondale, IL 62901-6623 (618) 453-8898 or (618) 453-1144 • Aviation Management

The University of Phoenix/Online Campus

www.phoenix.edu

- (602) 387-7000
- Business/AccountingBusiness/Administration
- Business/Administration
 Business/e-Business
- Business/Anagement
- Business/Managemer
 Marketing
- Information Technology
- Management

University of Illinois-Chicago (Rockford Global Campus)

510 Devonshire, Suite H

Champaign, IL 61820 • 866-896-3939

gcadvisor@uillinois.edu

- Bachelors of Business Administration (BBA)
- Bachelors of Nursing (BSN)

University of Illinois – Springfield

www.uis.edu Dual Admission

2+2 Agreement Opportunities

- Bachelor of Science Computer Science (A.A.S 2+2 agreement)
- Online Bachelor Degrees in:
 - English
 - History
 - Economics
 - Liberal Studies
 - Business Administration

Upper Iowa University - UIU Rockford

www.uiu.edu/transfer/rockvalley (800) 553-4150 1161 Tebala Blvd Rockford, IL 61108 Phone: 815-332-1414 E-mail: rockford@uiu.edu • Course-to-course Articulation Agreement

Western Illinois University

www.wiu.edu/SES or NP-BOT@wiu.edu Board of Trustees/Bachelor of Arts Degree (BOT/BA) (Online degree program completion with no time limits) (309) 298-1929

Rock Valley College has developed career programs in response to employment needs of the college district. All of the career programs have been developed in cooperation with program advisory committees.

Upon successful completion of a career program, students will receive an Associate in Applied Science (A.A.S.) degree or a certificate. Many of the Career Programs transfer in whole or in part to some universities. Refer to the specific program degree and certificate requirements in this section. Students intending to transfer should consult an academic advisor.

Requirements for the Associate in Applied Science (A.A.S.) Degree

The Associate in Applied Science Degree is awarded to students who successfully complete a career education curriculum. Attainment of this degree is evidence that the student possesses the competence for entry-level employment in their field of study. An associate degree usually requires two years for full-time students. Part-time students may complete the degree over a longer period of time.

All technical curricula leading to the Associate in Applied Science Degree have both specific program and general education course requirements. Whenever possible, the general education requirements will include a minimum of 15 semester hours of credits and students will be prepared to:

- Communicate effectively
- Demonstrate competency in critical thinking
- Respect and work effectively with persons of diverse backgrounds and abilities
- Demonstrate the behaviors of ethical and socially responsible citizens
- Demonstrate personal wellness

Students will find that some of these areas are already included in specific curricula.

Requirements for all A.A.S. degrees include:

- 1. Completion of one of the career education curriculums listed in this catalog (beginning on page 45), including a minimum of 64 semester credits. Courses numbered from 100 through 299, excluding certificate level courses so indicated under "Course Descriptions," can be used toward the 64 semester credits.
- 2. A maximum of three semester credits may be earned in Fitness, Wellness & Sport physical education activity classes (numbered 100-199).
- 3. A minimum grade point average of 2.0 ("C" average on a 4.0 scale).
- 4. Effective with summer of 1999, students must receive grades of C or better in ENG 101 and ENG 103 (if ENG 103 is required for the program).
- 6. Successful completion of at least 20 semester credits at Rock Valley College.

Requirements for certificates

Occupational certificate programs are developed and offered in areas where job-entry training and educational requirements usually can be met in less than two years. These short-term programs are excellent options for the student who is interested in quickly gaining skills for employment.

A number of certificates are offered either as part of career education degree programs or stand-alone certificates. Requirements for a certificate include the following:

- 1. For certificates with less than 30 credit hours, a minimum grade of "C" is required in each course required in the certificate.
- 2. For certificates of 30 or greater credit hours, a minimum cumulative grade point average of 2.0 ("C" on a 4.0 scale) is required.
- 3. Substitution of appropriate, approved courses may be made in certificates to a maximum of one-fourth of the credit hours in the respective certificate.

Upon successful completion of the requirements for a specific certificate, an application for the certificate must be completed at the Records and Registration Office.

Career Technical Education Programs

Associate in Applied Science Career & Technical Education	Program Degree (AAS) Credit Hours	Certificate Credit Hours	Requirements on Page
Accounting A.A.S.	67		47
Accounting / Income Tax Fundamentals		8	47
Professional Bookkeeper Certificate		25	47
Automotive Service Technology A.A.S.	66		47
Automotive Technician		51	48
Automotive Heating and Air Conditioning		15	48
Automotive Suspension and Brakes		11	48
Automotive Electrical		11	48
Automotive Engine		9	48
Automotive Engine Performance		19	48
Automotive Transmission		15	48
Aviation Maintonanco Tachnology A A S			40
Aviation Maintenance Technology A.A.S.	04	76	49
Aviation Maintenance Airframe Technician		17	49
Annane recinician Doworplant Toolphician		41	49
• rowerplant rechnician		40	00
Building Construction Technology A.A.S.	65		50
Building Construction		41	50
Basic Construction		14	50
Construction Methods & Materials		14	50
Residential Construction		11	50
Structural Drawing		21	51
Construction Management		18	51
Business Administration A A S	65		51
Business Authinistration A.A.S.	00	20	52
Management		20	52
Marketing		23	52
Marketing		21	
Child Care and Development A.A.S.	65		52
Child Care Worker		35	52
Child Care Aide		11	53
Child Care – Nanny		33	53
Computers and Information Systems A.A.S.	65		53
• C++ Programming		15	53
Visual Basic Programming		15	53
Notworking Specialist A A S	C A		EA
Cisco Networking A A S	64		54
Cisco Notworking	04	10	54
Cisco Advanced Networking		18	54
Voice Over IP Certificates		28	54
Data Assurance and IT Security A.A.S.	64		55
Web Information Technology	66		55
Criminal Justice A.A.S.	69		56
Dental Hygiene A.A.S.	81		56

Associate in Applied Science Career & Technical Education	Program Degree (AAS) Credit Hours	Certificate Credit Hours	Requirements on Page
Electronic Engineering Technology A A S	66		58
Basic Electronic Certificate	00	50	59
Electronics Certificate		27	59
Fluid Power Technology		12	60
Industrial Computer Systems A.A.S.	65		60
Manufacturing Engineering Technology A.A.S.	65		60
• CAD		15	61
• CNC		18	61
Basic Quality		18	61
Certified Manufacturing Associate		13	61
Laser Processes		22	61
FIRE SCIENCE A.A.S.	64		61
Fire Service		27	62
Firefighting Tactics and Fire Equipment		9	62
• Fire Officer		15	62
Fire Protection and Prevention		6	62
Fire Protection and Tactics		6	62
• Fire Tactics		6	62
Fitness, Wellness & Sport	64		62
GRAPHIC ARTS CAREERS:			
Graphic Arts Technology A.A.S Option A	67		63
Graphic Design A.A.S Option B	67		63
Prepress		23	64
HUMAN SERVICES A.A.S.	66		
Substance Abuse Counseling		34	64
MASS COMMUNICATIONCAREERS			
Media Production Specialist Certificate		26	65
NURSING PROGRAMS			
Associate Degree Nursing Program (NRS)	69		65
Hybrid Online Nursing Degree Program A.A.S. (NUR)	71		68
Nursing Aide Certificate (NAD)		6	69
Practical Nursing Program (PNU)		41	69
Office Professional Specialist A.A.S.	65		70
Administrative Assistant		34	71
Medical Transcriptionist	30		71
Medical Coding	15		71
MOS/Word		8	71
MOS/Excel		11	71
MOS/PowerPoint		11	71
MOS/Access		11	71
Paraprofessional Educator A.A.S.	64		72
Paraprofessional Education		34	72
Respiratory Care Program A.A.S.	71		73
Surgical Technology Program		40	74
			75
Electrician Apprenticeship A A S	64		59
Electrician Apprenticeship	01	42	59
Ironworkers Apprenticeship (Three Years)		18	75
Sheet Metal Apprenticeshin (Five Years)		40	75
Tool and Die/Precision Machinist		10	10
Certificate (Four Years)		28	75
Welding Certificate		24	75

ACCOUNTING

#2000

Degree conferred: Associate in Applied Science – 67 credits

Program contact: Division of Business/Computers & Information Systems (815) 921-3101

Program overview

Graduates of this program will play a central role in the financial life of a business or client. They will learn to assemble, identify, record, and interpret financial information in private and public accounting. Students who decide to go on to pursue a bachelor's degree will find other opportunities available in a wide range of fields.

Work and employment

Graduates of this program are prepared to assume positions such as accounting technician, accounting assistant, accounting clerk, or bookkeeper.

Certificates available

Accounting/Income Tax FundamentalsProfessional Bookkeeper

Accou	untin	g Course Requirements:	(48 credits)
* ATG	110	Financial Accounting	(4)
* ATG	111	Managerial Accounting	(4)
* ATG	120	Microcomputer Spreadsheet	
		Applications in Accounting	(2)
* ATG	123	General Ledger Software Applications	(2)
* ATG	210	Cost Accounting	(4)
* ATG	215	Intermediate Accounting I	(4)
* ATG	216	Intermediate Accounting II	(3)
* ATG	218	Federal Income Tax	(4)
* ATG	220	Fraud Detection & Deterrence	(3)
* ATG	298	Accounting Capstone	(3)
* BUS	101	Introduction to Business	(3)
* BUS	223	Business Statistics	(3)
* BUS	200	Legal Environment in Business, or	
* BUS	201	Business Law	(3)
* BUS	203	Economics for Business	(3)
* BUS	279	Principles of Finance	(3)
Gener	ral Ec	lucation Course Requirements:	(19 credits)
Requir	remen	ts:	16 credits
* ENG	101	Composition I	(3)

		*	
* ENG	105	Business Communications	(3)
CIS	102	Introduction to Computers	
		and Information Systems	(3)
PCI	106	Microcomputer Applications/Windows Based	(4)
$* \; \mathrm{SPH}$	131	Fundamentals of Communication	(3)

Electives: 3 credits

Select courses with at least two different prefixes in the Liberal Arts and Sciences areas (examples: ART, BIO, ECO, ENG, MTH, SOC, etc.) to fulfill General Education electives requirement.

*Course has a prerequisite—refer to course description section in this catalog.

Accounting Program Electives Courses

ATG	106	Intro to Accounting Debits & Credits	(1)
ATG	107	Intro to Accounting Special Journals	(1)
ATG	291	Internship Accounting	(1-6)
ATG	295	Independent Study in Accounting	(1-6)

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(8 credits)

Certificates

NOTE: Business 103 or 223 is recommended, but not required, for the following certificates.

Accounting/Income Tax Fundamentals Certificate/2011

ATTC	110	Dimensial Assessmentian a	(4)
AIG	110	Financial Accounting	(4)
ATG	218	Federal Income Tax	(4)

Certificate

Profe	Professional Bookkeeper/2020					
ATG	110	Financial Accounting	(4)			
ATG	111	Managerial Accounting	(4)			
ATG	120	Microcomputer Spreadsheet Applications	(2)			
ATG	123	General Ledger Software Applications	(2)			
ATG	220	Fraud Detection & Deterrence	(3)			
ATG	298	Accounting Capstone	(3)			
CIS	102	Introduction to Computers and				
		Information Systems	(3)			
PCI	106	Microcomputer Applications/Windows Bas	ed (4)			

AUTOMOTIVE SERVICE TECHNOLOGY A.A.S. #7100

Degree conferred: Associate in Applied Science - 66 credits

Program contact: Division of Technical Programs, (815) 921-3000

Program overview

Graduates of this program are prepared to assume positions in the automotive industry as entry-level technicians. Students become adept in all aspects of the vehicle, including electrical, engine, heating/AC, suspension and brakes, and transmission. Those with a 3.0 GPA should be able to pass the industry-recommended ASE tests.

Work and employment

Successful graduates who become ASE-certified can move into such positions as journeymen technicians, service managers, parts managers, jobber salespersons, insurance adjusters, and shop operators.

Transfer opportunities

Graduates can use their degree in partial fulfillment of a baccalaureate degree at select universities.

Certificates available

Automotive Electrical Automotive Technician Automotive Engine Automotive Transmission Automotive Engine Performance Automotive Heating & Air Conditioning Automotive Suspension & Brakes

*Students are expected to furnish their own tool kits for class. This will be discussed during the first class session.

Autor	notiv	e Course Requirements	(51 credits)
ATM	105	Introduction to Brake and Chassis System	ns (3)
ATM	106	Introduction to Automotive Electrical	
		Systems and Powertrains	(3)
*ATM	107	Automotive Electronic Fundamentals	(4)
*ATM	114	Brakes	(4)
*ATM	140	Engine Diagnosis and Repair	(6)
*ATM	203	Heating and Air-conditioning Systems	(4)
*ATM	221	Steering and Suspension	(4)
*ATM	222	Manual Transmission/Transaxles	(4)
*ATM	223	Automotive Electrical Circuits	(4)
*ATM	242	Automatic Transmission/Transaxles	(5)
*ATM	228	Engine Performance I	(5)
*ATM	229	Engine Performance II	(5)
Gene	ral Ed	lucation Course Requirements:	(15 credits)
*ENG	101	Composition I	(3)
*ENG	103	Composition II, or	
*ENG	105	Business Communications, or	
*ENG	110	Introductory Technical Writing, or	
*SPH	131	Fundamentals of Speech, or	
*SPH	141	Business and Professional Speech	(3)
*MTH	100	Technical Mathematics, or	
*MTH	120	College Algebra, or	(3)
*CIS	102	Intro to Computers & Info Systems	(3)
*PSY	170	General Psychology	(3)

*Course has a prerequisite—refer to course description section in this catalog.

Automotive Management option

If students are interested in pursuing the Automotive Management option in this program, they should take the following General Education and Business courses. Students must complete 18 credit hours from the following: Requirements: 12 credits *ENG 101 Composition (3)*ENG 103 Composition II, or *ENG 105 Business Communications, or *ENG 110 Introductory Technical Writing, or *SPH 131 Fundamentals of Speech, or SPH 141 Business and Professional Speech (3)BUS 101 Introduction to Business (3) PSY 170 General Psychology, or BUS 170 Intro to Organizational Behavior (3)Electives: 6 credits Select 6 credits from the following: ATG 106 Introduction to Accounting Debits and Credits (1)ATG 107 Introduction to Accounting Special Journals (1)*ATM 236 Advanced Computer Control Systems (4)*MGT 270 Principles of Management (3)*MGT 273 Small Business Management (3)*MTH 100 Technical Mathematics (5), or *MTH 120 College Algebra (3)

Note: Other General Education courses are acceptable.

*Course has a prerequisite—refer to course description section in this catalog.

Certificates

Auto	motiv	ve Technician/7101	(51 credits)
ATM	105	Introduction to Brake and Chassis Systems	s (3)
ATM	106	Introduction to Automotive Electrical	
		Systems and Powertrains	(3)
ATM	107	Automotive Electronic Fundamentals	(4)
ATM	114	Brakes	(4)
ATM	140	Engine Diagnosis and Repair	(6)
ATM	203	Heating and Air-conditioning Systems	(4)
ATM	221	Steering and Suspension	(4)
ATM	222	Manual Transmission/Transaxles	(4)
ATM	223	Automotive Electrical Circuits	(4)
ATM	242	Automatic Transmission/Transaxles	(5)
ATM	228	Engine Performance I	(5)
ATM	229	Engine Performance II	(5)
Auto	motiv	e Heating and	
Air C	ondit	ioning/7117	(15 credits)
ATM	106	Introduction to Automotive Electrical	
		Systems and Powertrains	(3)
ATM	107	Automotive Electronic Fundamentals	(4)
ATM	203	Heating and Air-conditioning Systems	(4)
ATM	223	Automotive Electrical Circuits	(4)
Auto	motiv	e Suspension and Brakes/7112	(11 credits)
ATM	105	Introduction to Brake and Chassis Systems	s (3)
ATM	114	Brakes	(4)
ATM	221	Steering and Suspension	(4)
Auto	motiv	e Electrical/7113	(11 credits)
ATM	106	Introduction to Automotive Electrical	· · · ·
		Systems and Powertrains	(3)
ATM	107	Automotive Electronic Fundamentals	(4)
ATM	223	Automotive Electrical Circuits	(4)
Δυτο	motiv	e Engine/7111	(9 credits)
ATM	106	Introduction to Automotive Electrical	(0 0100100)
		Systems and Powertrains	(3)
ATM	140	Engine Diagnosis and Repair	(6)
Auto	motiv	e Engine Performance/7114	(19 credits)
ATM	106	Introduction to Automotive Electrical	
		Systems and Powertrains	(3)
ATM	140	Engine Diagnosis and Repair	(6)
ATM	228	Engine Performance I	(5)
ATM	229	Engine Performance II	(5)
Auto	motiv	e Transmission/7116	(15 credits)
ATM	105	Introduction to Brake and Chassis Systems	s (3)
ATM	106	Introduction to Automotive Electrical	
		Systems and Powertrains	(3)
ATM	222	Manual Transmission/Transaxles	(4)
ATM	242	Automatic Transmission/Transaxles	(5)

AVIATION MAINTENANCETECHNOLOGY A.A.S.#7200

Degree conferred: Associate in Applied Science - 82 credits

Program contacts: Division of Technical Programs Office, (815) 921-3000 or Aviation Maintenance Technology program, (815) 921-3014

Program overview

Federally-licensed graduates of this program are prepared to assume positions as airline or general aviation engine and/or airframe mechanics. The program is certified to provide approved instruction leading to FAA Airframe and Powerplant certificate examinations. Currently, 2,000 hours of instruction are offered in the areas of airframe and powerplant, which translates to 11 months of instruction in each year of the two-year program.

Work and employment

In addition to the general aviation engine and/or airframe mechanic, graduates have also found work in other jobrelated areas, such as sheet metal construction and repair, reciprocating and turbine engine repair and overhaul, engine accessory overhaul and repair, air conditioning systems, welding, hydraulics, pneumatics, and electrical systems maintenance.

${\it Transfer\ opportunities}$

The program provides the first two years of a baccalaureate program for those who wish to pursue a four-year degree. Graduates also receive preferential admission status when they apply to the B.S. in Aviation Management or Aviation Technologies programs at Northern Illinois University, Southern Illinois University and Embry-Riddle Aeronautical University.

Previous College Credit

The RVC/AVM program does not accept transfer credits for aviation courses completed at any other institution.

Applying for the program

A special application is required for admission to the program. Students are urged to apply as soon as possible prior to the fall term in which they wish to enroll. Contact the program office for an application.

Certificates available

- Aviation Maintenance
- Airframe Technician
- Powerplant Technician

Aviation Maintenance

(Cour	(76 credits)		
4	AVM	101	Materials and Processes	(3)
	AVM	102	Basic Electricity	(3)
	AVM	103	Aviation Mathematics and Physics	(2)
	AVM	104	Records and Publications	(3)
	AVM	105	Aircraft Drawing-Weight and Balance	(3)
	AVM	106	Cleaning and Corrosion Control	(3)
	AVM	160	Fuel and Lubrication Systems	(6)
	AVM	161	Engine Support Systems	(3)
	AVM	162	Basic Powerplants	(6)
	AVM	163	Ignition Systems	(3)
4	AVM	164	Advanced Powerplants	(6)

AVM	165	Engine Electrical Systems	(2)
AVM	166	Propeller Systems	(3)
AVM	241	Aircraft Finishing and Covering	(3)
AVM	242	Cabin Atmosphere Control Systems	(2)
AVM	243	Aircraft Welding	(1)
AVM	244	Aircraft Auxiliary Systems	(1)
AVM	245	Aircraft Electrical Systems	(3)
AVM	246	Aircraft Instruments and	
		Communication Systems	(2)
AVM	247	Aircraft Metal Structures	(6)
AVM	248	Hydraulic and Pneumatic Control Systems	(3)
AVM	249	Aircraft Fuel Systems	(1)
AVM	250	Assembly and Rigging	(3)
AVM	251	Landing Gear Systems	(3)
AVM	252	Airframe Inspection	(2)
Gene	ral Ec	lucation Course Requirements:	(6 credits)
*ENG	101	Composition I	(3)
*ENG	110	Introductory Technical Writing or	
*SPH	131	Fundamentals of Speech or	

. PLU	191	r undamentais of speech of	
*ENG	103	Composition II, or	
SPH	141	Business and Professional Speech	(3)

*Course has a prerequisite—refer to course description section in this catalog.

Certificates

Aviat	ion I	Maintenance/7201	(76 credits)
AVM	101	Materials and Processes	(3)
AVM	102	Basic Electricity	(3)
AVM	103	Aviation Mathematics and Physics	(2)
AVM	104	Records and Publications	(3)
AVM	105	Aircraft Drawing-Weight and Balance	(3)
AVM	106	Cleaning and Corrosion Control	(3)
AVM	160	Fuel and Lubrication System	(6)
AVM	161	Engine Support System	(3)
AVM	162	Basic Powerplants	(6)
AVM	163	Ignition Systems	(3)
AVM	164	Advanced Powerplants	(6)
AVM	165	Engine Electrical Systems	(2)
AVM	166	Propeller Systems	(3)
AVM	241	Aircraft Finishing and Covering	(3)
AVM	242	Cabin Atmosphere Control Systems	(2)
AVM	243	Aircraft Welding	(1)
AVM	244	Aircraft Auxiliary Systems	(1)
AVM	245	Aircraft Electrical Systems	(3)
AVM	246	Aircraft Instruments and	
		Communication Systems	(2)
AVM	247	Aircraft Metal Structures	(6)
AVM	248	Hydraulic and Pneumatic Control System	s (3)
AVM	249	Aircraft Fuel Systems	(1)
AVM	250	Assembly and Rigging	(3)
AVM	251	Landing Gear Systems	(3)
AVM	252	Airframe Inspection	(2)
Airfra	me '	Technician/7202	(47 credits)
A T T A F	101	14	(0)

AVM	101	Materials and Processes	(3)
AVM	102	Basic Electricity	(3)
AVM	103	Aviation Mathematics and Physics	(2)
AVM	104	Records and Publications	(3)
AVM	105	Aircraft Drawing-Weight and Balance	(3)
AVM	106	Cleaning and Corrosion Control	(3)
AVM	241	Aircraft Finishing and Covering	(3)
AVM	242	Cabin Atmosphere Control Systems	(2)
AVM	243	Aircraft Welding	(1)
AVM	244	Aircraft Systems Auxiliary	(1)
AVM	245	Aircraft Electrical Systems	(3)
AVM	246	Aircraft Instruments and Communication	
		Systems	(2)
AVM	247	Aircraft Metal Structures	(6)
AVM	248	Hydraulic and Pneumatic Control Systems	(3)
AVM	249	Aircraft Fuel Systems	(1)
AVM	250	Assembly and Rigging	(3)
AVM	251	Landing Gears Systems	(3)
AVM	252	Airframe Inspection	(2)

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Powe	erplan	rt Technician/7203	(46 credits)
AVM	101	Materials and Processes	(3)
AVM	102	Basic Electricity	(3)
AVM	103	Aviation Mathematics and Physics	(2)
AVM	104	Records and Publications	(3)
AVM	105	Aircraft Drawing-Weight and Balance	(3)
AVM	106	Cleaning and Corrosion Control	(3)
AVM	160	Fuel and Lubrication System	(6)
AVM	161	Engine Support System	(3)
AVM	162	Basic Powerplants	(6)
AVM	163	Ignition Systems	(3)
AVM	164	Advanced Powerplants	(6)
AVM	165	Engine Electrical Systems	(2)
AVM	166	Propeller Systems	(3)

BUILDING CONSTRUCTION TECHNOLOGY #7000

Degree conferred: Associate in Applied Science – 65 credits

Transfer to select universities

Program contact: Division of Engineering and Technology, (815) 921-3101

Program overview

Graduates of the program organize, lead, and manage the resources, materials, and the processes related to building construction, both commercial and residential.

Work and employment

Graduates work in such jobs as estimators, detailers, surveyors, and in sales. With additional experience, successful graduates can advance to field engineering assistant, construction or maintenance supervisor, building inspector, or contractor.

Transfer opportunities

Graduates of the program have the option to transfer their degree to various four-year universities to pursue a B.S. in Construction Management.

Two tracks to choose from

The Building Construction program offers a Technology option and a Management option. Students should review the options to determine which meet their career goals.

Building Construction Course

R	Requirements:			redits)
C c	ore require	ements:	(38	credits)
**	BCT 101	Introductory Drafting		(3)
	BCT 104	Residential Construction Blueprint Read	ing	(2)
	BCT 117	Construction Materials I		(3)
	BCT 119	Construction Materials II		(3)
*	BCT 190	Commercial Construction Blueprint Read	ding	(3)
	BCT 195	Construction Surveying I		(3)
	BCT 202	Residential Mechanical Systems		(3)
*	BCT 219	Statics and Strength of Materials		
		for Building Construction		(3)
	BCT 225	Construction Safety		(3)
*	BCT 237	Computer-Aided Architectural Drafting]	(3)
*	BCT 251	Codes, Contracts, and Specifications		(3)
*	BCT 260	Building Construction Estimating		(3)
*	BCT 270	Construction Job Scheduling		(3)
**	This course	may be waived for students with a minin	num o	f two

**This course may be waived for students with a minimum of two semesters of high school drafting or equivalent industrial experience. Elective: 9 credits in one of the following study options:

Consi	ruct	ion lechnology Uption	
*BCT	239	Wood Frame Structures	(3)
*BCT	287	Structural Detailing	(3)
*BCT	168	Construction Internship (1-6), or	
*BCT	218	Construction Surveying II (3), or	
*BCT	248	Computer-Aided Architectural	
		Drafting II (3), or	
*BCT	298	Independent Study (1-6)	(3)
Const	tructi	ion Management Option	
MGT	270	Principles of Management	(3)
BUS	101	Introduction to Business	(3)
Electiv	e fron	areas of Business, Management, or Marketing.	
BCT ac	lvisor	approval required.	(3)
Gene	ral Ec	ducation Course Requirements: (18	credits)
Requir	remen	ts: (9-11	credits)
*ENG	101	Composition I	(3)
*ENG	103	Composition II, or	
*ENG	105	Business Communication, or	
*ENG	110	Introductory Technical Writing, or	
*SPH	131	Fundamentals of Communication, or	
SPH	141	Business and Professional Communication	(3)
*MTH	125	Plane Trigonometry, or	(3)
*MTH	132	Precalculus Mathematics or	(5)
*MTH	100	Technical Mathematics	(5)
Electii	es: Se	lect 9 credits from the following as needed:	
CIS	102	Introduction to Computers and Information S	ystems
		Mathematics course	
		Science course	
		Humanities course	
		Fitness, Wellness & Sport course	(7-9)

Note: Other General Education courses approved by the BCT advisor may be substituted.

*Course has a prerequisite—refer to course description section in this catalog.

Certificates

Buildi	ing C	construction/7014 (41	credits)
BCT	101	Introductory Drafting	(3)
BCT	104	Residential Construction Blueprint Reading	(2)
BCT	117	Construction Materials I	(3)
BCT	119	Construction Materials II	(3)
BCT	190	Commercial Construction Blueprint Reading	g (3)
BCT	195	Construction Surveying I	(3)
BCT	202	Residential Mechanical Systems	(3)
BCT	225	Construction Safety	(3)
BCT	237	Computer-Aided Architectural Drafting	(3)
BCT	239	Wood Frame Structures	(3)
BCT	251	Codes, Contracts, and Specifications	(3)
BCT	260	Building Construction Estimating	(3)
BCT	270	Construction Job Scheduling	(3)
BCT	287	Structural Detailing	(3)
	•		
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Mini-Certificates Basic Construction

Basic	Con	struction/7016 (14	credits]
BCT	101	Introductory Drafting	(3)
BCT	104	Residential Construction Blueprint Reading	(2)
BCT	117	Construction Materials I	(3)
BCT	119	Construction Materials II	(3)
BCT	225	Construction Safety	(3

Construction Methods and Materials/7011 (14 credits)

BCT	104	Residential Construction Blueprint Reading	(2)
BCT	117	Construction Materials I	(3)
BCT	119	Construction Materials II	(3)
BCT	260	Building Construction Estimating	(3)
BCT	270	Construction Job Scheduling	(3)

Resid	ential	Construction/7013	(11	credits)
BCT	104	Residential Construction Blueprint Re	ading	(2)
BCT	195	Construction Surveying I		(3)
BCT	202	Residential Mechanical Systems		(3)
BCT	239	Wood Frame Structures		(3)

Struc	tural	Drawing/7015	(21 credits)
BCT	190	Commercial Construction Blueprint Rea	ading (3)
BCT	219	Statics and Strength of Materials for	
		Building Construction	(3)
BCT	237	Computer-Aided Architectural Drafting	(3)
BCT	239	Wood Frame Structures	(3)
BCT	248	Computer-Aided Architectural Drafting	II (3)
BCT	287	Structural Detailing	(3)
BCT	298	Independent Study	(3)
Const	ructi	on Management/7012	(18 credite)
BCT	225	Construction Safety	(10 creans)
BCT	251	Codes Contracts and Specifications	(3)
BCT	260	Building Construction Estimating	(3)
BCT	270	Construction Job Scheduling	(3)
BUS	101	Introduction to Business	(3)
MGT	270	Principles of Management	(3)

BUSINESS	
ADMINISTRATION	#2100

Degree conferred: Associate in Applied Science – 65 credits

Program contact: Division of Business/Computers & Information Systems (815) 921-3101

Program overview

Graduates of this program will have acquired knowledge and skills of business and leadership which can be applied to entry level jobs. Additionally, graduates of the business program will have the knowledge and skills required to meet the criteria of success for the RVC Student Learning Outcomes.

– General business: Graduates will have acquired a broad knowledge and skill of business and an overview of all general business concepts. Students who choose this focus will be prepared to work in a variety of business positions.

- *Management:* Graduates will have acquired a broad base of business knowledge and skills, management techniques, and leadership skills. Students who choose this focus will be prepared for entry level supervisory positions in a variety of leadership positions.

- *Marketing:* Graduates will learn about the various career paths available in marketing and learn the concepts behind the development of products, pricing, promotion, and distribution. Students who choose this focus will be prepared to work in a variety of entry-level marketing positions in business.

Work and employment

Graduates of this program are prepared to assume entrylevel positions or advance their current position in management, marketing, sales, purchasing, finance, and human relations among other areas.

In addition, students are encouraged to explore opportunities to transfer and pursue a bachelor degree in business. Rock Valley College business program has several articulation agreements in place which allow students to transfer credit towards a bachelor degree program. Please make an appointment with the Business Associate Dean or Business Academic Chair to discuss appropriate plans of study for transfer options.

Business Administration Course

Requi	reme	ents:	(38 credits)
* ATG	110	Financial Accounting	(4)
BUS	101	Introduction to Business	(3)
* BUS	103	Business Mathematics, or	
* BUS	223	Business Statistics	(3)
BUS	200	Legal Environment in Business or	
* BUS	201	Business Law	(3)
BUS	203	Economics for Business	(3)
* BUS	279	Principles of Finance	(3)
* BUS	282	International Business	(3)
BUS	298	Global Small Business Incubator	(3)
* MGT	270	Principles of Management	(3)
MKT	260	Principles of Marketing	(3)
MKT	288	Customer Relations	(3)
* PCI	106	Microcomputer Applications/Windows	(4)

Choose appropriate option:

Option A: General Business (9 credits)

BUS	105	Consumer Economics & Personal Finance	(3)
BUS	170	Intro to Organizational Behavior	(3)

Electives – 3 credits

E

Any Business Division course with prefix ATG, BUS, MGT, MKT, OFF, PCI

Option	nB:	Management	(9 credits)
Note: T	'his opt	tion requires BUS 223 Business Statistics i	nstead ofBUS
103 Bus	siness	Mathematics.	
BUS	170	Intro to Organizational Behavior	(3)
* MGT	271	Human Resource Management	(3)
* MGT	274	Leadership	(3)

Option C: Marketing (9 credits)

MKT 265	Salesmanship	(3)
MKT 266	Principles of Advertising	(3)
lectives – 3	credits	

Select a course with prefix ATG, BUS, MGT, MKT, OFF, PCI.

Option D: Specialized Management or Marketing

To meet the needs of a special situation, the Business/CIS Associate Dean will work with the student to design a specialized curriculum.

(9 credits)

All courses applied to this option must have the prior approval of the Business/CIS Associate Dean.

Gener	al E	ducation Course Requirements	(18 credits)
CIS	102	Introduction to Computer Systems	(3)
* ENG	101	Composition I	(3)
* ENG	105	Business Communications	(3)
* SPH	131	Fundamentals of Communication	(3)
Electiv	es – 6	3 credits	
Studen	ts mu	ist select courses with at least two differe	nt prefixes in
the Cor	orol	Education Core Curriculum areas (Exam	nlo: APT BIO

the General Education Core Curriculum areas (Example: ART, BIO, ECO, ENG, MTH, SOC, etc.) to fulfill general education elective requirements.

*Course has a prerequisite—refer to course description section in this catalog.

Business Program Elective Courses:

BUS	207	The Virtual Company	(4)
BUS	295	Independent Study in Business Administration	(1-6)
BUS	296	Special Topics in Business Administration	(1-4)
MGT	273	Small Business Management	(3)
MGT	281	Women in Management	(3)
MGT	282	Independent Study in Management	(1-3)
MGT	283	Internship in Business Management	(1-6)
MKT	281	International Marketing	(3)
MKT	293	Internship – Marketing	(1-3)
MKT	295	Independent Study in Marketing	(1-3)

*Course has a prerequisite—refer to course description section in this catalog.

Certificates

Certificates may be awarded in several areas of business. Certificates are for students who wish to concentrate on specific areas of interest by taking a few courses targeted at those interests. The certificates demonstrate to employers that skills have been acquired in particular areas of practice.

Busin	ess Fi	Indamentals/2114	(29 credits)
This ce	ertificat	te is designed for students who are interes	ted in focused
course	work i	n business fundamentals. Students will be	e able to
demon	strate	to employers a general understanding in th	ne basic areas
of busi	ness.		
*ATG	110	Financial Accounting	(4)
BUS	101	Introduction to Business	(3)
*BUS	103	Business Mathematics, or	
*BUS	223	Business Statistics	(3)
BUS	170	Into to Organizational Behavior	(3)
BUS	200	Legal Environment in Business, or	(3)
BUS	201	Business Law	(3)
*MGT	270	Principles of Management	(3)
*MKT	260	Principles of Marketing	(3)
*PCI	106	Microcomputer Applications/	
		Windows Based	(4)
*ENG	105	Business Communications	(3)

Management/2511

This certificate in management is intended for individuals who wish to develop or enhance skills in management and supervision. It offers students the course work required to receive fundamental management skills and prepare students who are interested in mid-to-upperlevel supervision positions.

(29 credits)

*ATG	110	Financial Accounting	(4)
BUS	101	Introduction to Business	(3)
*MGT	270	Principles of Management	(3)
*MGT	273	Small Business Management	(3)
*MGT	274	Leadership	(3)
*MKT	260	Principles of Marketing	(3)
MKT	288	Customer Relations	(3)
*PCI	106	Microcomputer Applications/	
		Windows Based	(4)
*ENG	105	Business Communications	(3)

Marketing/2211

(21 credits) This certificate is for students who are interested in marketing and wish to acquire specific skills in the areas of sales, advertising and customer relations. 101 Introduction to Business BUS (3)

DUD	101	Introduction to Dusiness	(0)
*MKT	260	Principles of Marketing	(3)
*MKT	265	Salesmanship	(3)
*MKT	266	Principles of Advertising`	(3)
MKT	288	Customer Relations	(3)
*ENG	105	Business Communications	(3)
*SPH	131	Fundamentals of Communications	(3)

CHILD CARE AND DEVELOPMENT

Degree conferred: Associate in Applied Science -

#5500

65 credits

Program contact: Liberal Arts Division, (815) 921-3378

Program overview

Graduates of the program are well-versed in child development, nutrition, exercise, developing age-appropriate curriculum and other facets of child care. They will be ready to direct or teach at a day care center.

Work and employment

Opportunities exist in home-based care, day care centers, nursery schools, pre-schools, private homes, and at before or after-school programs. While the program is not preparation for state certification, courses may transfer to fouryear schools, where certification can be earned to teach ages birth through third grade.

Enrollment in courses requires weekly field assignments as well as a complete medical examination, TB skin test, fingerprinting, and three written references.

Child Care and Development

Cours	e Req	uirements:	(41 credits)
CHD	100	The Child Care Worker	
CHD	101	The Developing Child	(5)
*CHD	103	Nutrition and Health of the Young Child	(2)
*CHD	104	Large Muscle Development	(2)
*CHD	105	Developing Techniques for	
		Working with the Young Child	(3)
*CHD	106	Music for the Young Child	(3)
*CHD	107	Science for the Young Child	(2)
*CHD	108	Art for the Young Child	(3)
*CHD	201	Language Development	(3)
*CHD	202	Family-Community Relationships	
		and Resources	(3)
*CHD	203	Curriculum Planning for the Young Child	(3)
*CHD	204	Internship-Child Care	(4)
*CHD	205	Organization and Supervision of	
		Early Childhood Facilities	(3)
*CHD	206	Mathematics for the Young Child	(2)

Genei	ral Ec	lucation Course Requirements: (24 credits
BIO		Elective	(3)
*ENG	101	Composition I	(3)
PSY	170	General Psychology	(3)
EDU	244	Students with Disabilities in Schools	(3)
PSY	270	Life-Span Developmental Psychology, or	
SOC	190	Introduction to Sociology	(3)
SOC	299	Marriage and Family	(3)
*SPH	131	Fundamentals of Communication	(3)
Electiv	e: Sele	ect 3 credits from two of the following:	
Compu	ter an	d Information Systems, Humanities, Social S	cience

uter and Information Systems, Humanities, Social Science Mathematics, or Science electives.

Certificates

Child	Care	Worker/5501	(35 credits)
CHD	100	The Child Care Worker	(3)
CHD	101	The Developing Child	(5)
CHD	103	Nutrition and Health of the Young Child	(2)
CHD	104	Large Muscle Development	(2)
CHD	105	Developing Techniques for Working	
		with the Young Child	(3)
CHD	106	Music for the Young Child	(3)

CHD	107	Science for the Young Child	(2)
CHD	201	Language Development	(3)
CHD	202	Family-Community Relationships	
		and Resources	(3)
CHD	204	Internship - Child Care	(4)
CHD	206	Mathematics for the Young Child	(2)
CHD	203	Curriculum Planning for the Young Child	(3)
01.11.1	•	A. 1. (FE44	(11 1975)
Child	Care		(11 credits)
CHD	100	The Child Care Worker	(3)
CHD	101	The Developing Child	(5)
CHD	105	Developing Techniques for Working	(0)
		with the Young Child	(3)
Child	Care	- Nannv/5502	(33 credits)
			(00 0100100)
CHD	101	The Developing Child	(5)
CHD CHD	101 103	The Developing Child Nutrition and Health of the Young Child	(5) (5) (2)
CHD CHD CHD	101 103 104	The Developing Child Nutrition and Health of the Young Child Large Muscle Development	(5) (2) (2)
CHD CHD CHD CHD CHD	101 103 104 105	The Developing Child Nutrition and Health of the Young Child Large Muscle Development Developing Techniques for Working	(5) (2) (2)
CHD CHD CHD CHD CHD	101 103 104 105	The Developing Child Nutrition and Health of the Young Child Large Muscle Development Developing Techniques for Working with the Young Child	(5) (2) (2) (3)
CHD CHD CHD CHD CHD	101 103 104 105 114	The Developing Child Nutrition and Health of the Young Child Large Muscle Development Developing Techniques for Working with the Young Child Introduction to the Nanny Profession	(5) (2) (2) (3) (3)
CHD CHD CHD CHD CHD CHD CHD	101 103 104 105 114 203	The Developing Child Nutrition and Health of the Young Child Large Muscle Development Developing Techniques for Working with the Young Child Introduction to the Nanny Profession Curriculum Planning for the Young Child	(5) (2) (2) (3) (3) (3)
CHD CHD CHD CHD CHD CHD CHD CHD	101 103 104 105 114 203 208	The Developing Child Nutrition and Health of the Young Child Large Muscle Development Developing Techniques for Working with the Young Child Introduction to the Nanny Profession Curriculum Planning for the Young Child Internship - Nanny Experience	(5) (2) (2) (3) (3) (3) (3)
CHD CHD CHD CHD CHD CHD CHD CHD *ENG	101 103 104 105 114 203 208 101	The Developing Child Nutrition and Health of the Young Child Large Muscle Development Developing Techniques for Working with the Young Child Introduction to the Nanny Profession Curriculum Planning for the Young Child Internship - Nanny Experience Composition I	(5) (2) (2) (3) (3) (3) (3) (3) (3)
CHD CHD CHD CHD CHD CHD CHD CHD *ENG FWS	101 103 104 105 114 203 208 101 243	The Developing Child Nutrition and Health of the Young Child Large Muscle Development Developing Techniques for Working with the Young Child Introduction to the Nanny Profession Curriculum Planning for the Young Child Internship - Nanny Experience Composition I First Aid and General Safety	(5) (2) (2) (3) (3) (3) (3) (3) (3) (3) (3)
CHD CHD CHD CHD CHD CHD CHD CHD *ENG FWS PSY	101 103 104 105 114 203 208 101 243 270	The Developing Child Nutrition and Health of the Young Child Large Muscle Development Developing Techniques for Working with the Young Child Introduction to the Nanny Profession Curriculum Planning for the Young Child Internship - Nanny Experience Composition I First Aid and General Safety Life-Span Developmental Psychology, or	(5) (2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3
CHD CHD CHD CHD CHD CHD CHD CHD CHD CHD	101 103 104 105 114 203 208 101 243 270 190	The Developing Child Nutrition and Health of the Young Child Large Muscle Development Developing Techniques for Working with the Young Child Introduction to the Nanny Profession Curriculum Planning for the Young Child Internship - Nanny Experience Composition I First Aid and General Safety Life-Span Developmental Psychology, or Introduction to Sociology	(5) (2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3
CHD CHD CHD CHD CHD CHD CHD CHD CHD CHD	101 103 104 105 114 203 208 101 243 270 190 Care Elo	The Developing Child Nutrition and Health of the Young Child Large Muscle Development Developing Techniques for Working with the Young Child Introduction to the Nanny Profession Curriculum Planning for the Young Child Internship - Nanny Experience Composition I First Aid and General Safety Life-Span Developmental Psychology, or Introduction to Sociology ective	(5) (1) (2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3
CHD CHD CHD CHD CHD CHD CHD CHD *ENG FWS PSY SOC Child C *Cours	101 103 104 105 114 203 208 101 243 270 190 care Ele e has a	The Developing Child Nutrition and Health of the Young Child Large Muscle Development Developing Techniques for Working with the Young Child Introduction to the Nanny Profession Curriculum Planning for the Young Child Internship - Nanny Experience Composition I First Aid and General Safety Life-Span Developmental Psychology, or Introduction to Sociology ective prerequisite—refer to course description	(5) (10 (10) (2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3

Computer Careers

COMPUTERS AND	
INFORMATION SYSTEMS	# 2700

Degree conferred: Associate in Applied Science - 65 credits

Program contact: Division of Business/Computers & Information Systems, (815) 921-3101

Program overview

Graduates of this program learn the complexities of computer software, hardware, and programming processes to enable them to be successful in the workplace. For those who decide to pursue a bachelor's degree, the Computers and Information Systems program offers courses that can be successfully transferred to baccalaureate institutions.

Work and employment

Although many graduates of the program begin work as entry-level programmers, opportunities are also available as a programmer/analyst, technical support specialist, PC specialist, operations specialist, and in database support.

The Business/CIS Division also offers degrees in Web site development, networking, and PC skills. For information on these A.A.S. degrees, please see the Web Information Technology, the Personal Computer Technical Specialist, and the Personal Computer Information Specialist programs elsewhere in this catalog. Certificates available - C/C++ Programming - Visual Basic Programming **Business/CIS Division Course Requirements** (40 credits) Required for both C/C++ and Visual Basic *ATG 110 Financial Accounting (4)BUS 101 Introduction to Business (3)CIS Introduction to Computers and 102 Information Systems (3)*CIS 251 Systems Analysis and Design (3)*CIS 254Database Programming (4)*PCT 110 Network Essentials (3)*WEB 101 Programming Related to the Internet (4)Choose one area of specialization C/C++ Programming Specialization (4)Introduction to C/C++ Programming *CIS 276 *CIS 277 Advanced C/C++ Programming (4)*CIS 279Visual C/C++ Programming (4)*CIS 180 Introduction to Visual Basic Programming, or *CIS 240 Introduction to Java Programming (4)Visual Basic Specialization Introduction to Visual Basic Programming (4)*CIS 180 *CIS 181 Advanced Visual Basic Programming (4)*CIS 184 Visual Basic Programming III (4)*CIS 276Introduction to C/C++ Programming, or *CIS 240 Introduction to Java Programming (4)**General Education Course Requirements:** (15 credits) Requirements: (15 credits) *ENG 101 Composition I (3)*ENG 103 Composition II or

11110	100	composition ii, or	
*ENG	105	Business Communication, or	
*ENG	110	Introductory Technical Writing	(3)
*SPH	131	Fundamentals of Speech, or	
SPH	141	Business and Professional Speech	(3)
*MTH	120	College Algebra, or	
*MTH	160	Topics From Finite Mathematics, or	
*MTH	220	Elements of Statistics	(3 - 4)
BUS	170	Intro to Organizational Behavior, or	
PSY	170	General Psychology, or	
SOC	190	Introduction to Sociology	(3)

*Course has a prerequisite - refer to course description section in this catalog.

Certificates

しんし	+ Pro	gramming/2/35	(15 credits)
*CIS	251	Systems Analysis and Design	(3)
*CIS	276	Introduction to C/C++ Programming	(4)
*CIS	277	Advanced C/C++ Programming	(4)
*CIS	279	Visual C/C++ Programming	(4)
Visua	al Bas	sic Programming/2745	(15 credits)
*CIS	180	Introduction to Visual	
		Basic Programming	(4)
	101		6.45

CIS	181	Advanced Visual Basic Programming	(4)
CIS	184	Visual Basic Programming III	(4)
CIS	251	Systems Analysis and Design	(3)

CIS Electives

With the approval of the Business/CIS/EAT associate dean, select courses with any of the following prefixes: CIS, PCT, or WEB.

*Course has a prerequsite-refer to course description section in this catalog.

(10 credits)

PERSONAL COMPUTER TECHNICAL SPECIALIST

The Personal Computer Technical Specialist describes a series of specialized computer-related degree programs in some of the most in-demand career fields. They include Networking Specialist, Cisco Networking (which also has two certificate-level programs) and Data Assurance and IT Security.

The Business/CIS Division also offers degrees in Web site development and programming. For information on these A.A.S. degrees, please see the Web Information Technology and the Computer and Information Systems programs elsewhere in this section.

NETWORKING SPECIALIST #3700

Degree conferred: Associate in Applied Science – 64 credits

Program contact: Division of Business/Computers & Information Systems, (815) 921-3101

Program overview

Graduates of this program are prepared for professional careers in the computing network field. The program takes students from the beginning architectural design process through installation, configuration, administration and tuning of microcomputer network environments.

Work and employment

Successful graduates have found work as network support specialists, software support specialists, network administrators, network specialists, help desk/network support personnel, and telecommunications specialists.

CISCO NETWORKING

#3750

Degree conferred: Associate in Applied Science – 64 credits

Program contact: Division of Business/Computers & Information Systems, (815) 921-3101

Program overview

Graduates of the program are prepared to obtain Cisco's CCNA certification.

Work and employment

Successful graduates have found work as network support specialists, software support specialists, network administrators, and network specialists among others.

Certificates available

- Cisco Networking
- Cisco Advanced Networking

DATA ASSURANCE AND IT SECURITY

Degree conferred: Associate in Applied Science – 64 credits

#3775

Program contact: Division of Business/Computers & Information Systems, (815) 921-3101

Program overview

Graduates of this program are prepared for a career in computer network and Internet security. Responsibilities include developing information security strategies, performing analyses, installing security software, monitoring network traffic, and developing emergency plans.

Work and employment

With the increased concern over computer security issues, employers are looking for people with skills in this area. Graduates secure jobs such as security specialists, network specialists, security technicians, security support specialists, and security assistants.

PC Technical Specialist

Cours	e rec	quirements	(49 credits)
Required for all three degrees			(10 credits)
CIS	102	Introduction to Computers and	
		Information Systems	(3)
*WEB	101	Programming Related to the Internet	(4)
PCT	270	Introduction to Unix/Linux	(3)
РСТ	Elec	tives	(10 credits)
With th with ar	ne appi ay of th	roval of the Business/CIS Associate Dean ne following prefixes: CIS, PCT, or WEB.	, select courses

Gene	ral E	ducation Course Requirements	(15 credits)
*ENG	101	Composition I	(3)
*ENG	103	Composition II, or	
*ENG	105	Business Communication, or	
*ENG	110	Introductory Technical Writing	(3)
*SPH	131	Fundamentals of Speech, or	
SPH	141	Business and Professional Speech	(3)
*MTH	120	College Algebra, or	
*MTH	160	Topics From Finite Mathematics, or	
*MTH	220	Elements of Statistics	(3 - 4)
BUS	170	Human Relations in Business, or	
PSY	170	General Psychology, or	
SOC	190	Introduction to Sociology	(3)

Choose one area of specialization (29 credits)

Networking Specialist (Microsoft and Novell) #3700

*CIS	276	Introduction to C/C++ Programming	(4)
*WEB	102	Advanced Programming Related to the Internet	(4)
*PCT	262	Computer Service and Repair	(3)
*PCT	110	Network Essentials	(3)
*PCT	112	Windows Server Fundamentals	(3)
*PCT	114	NetWare Fundamentals	(3)
*PCT	210	Introduction to TCP/IP	(3)
*PCT	290	Special Topics in Networking	(3)
EET	100	Introduction to Electronics	(3)

Cisco Networking #3750

*CIS	276	Introduction to C/C++ Programming	(4)
*PCT	112	Windows Server Fundamentals, or	
*PCT	114	NetWare Fundamentals	(3)
*PCT	120	Cisco Networking I	(4)
*PCT	122	Cisco Networking II	(4)
*PCT	124	Cisco Networking III	(4)
*PCT	126	Cisco Networking IV	(4)
*PCT	262	Computer Service and Repair	(3)
EET	100	Introduction to Electronics	(3)

DATA ASSURANCE AND IT SECURITY

#3775

*PCT	112	Windows Server Fundamentals, or	
*PCT	114	NetWare Fundamentals	(3)
*PCT	120	Cisco Networking I	(0)
*PCT	122	Cisco Networking I	(4)
*PCT	124	Cisco Networking III	(4)
*PCT	126	Cisco Networking IV	(4)
PCT	130	Introduction to Network Security	(3)
*PCT	132	Advanced Network Security	(3)
*PCT	275	Cisco Firewall Design	(4)
Certif	icate	S	
Cisco	Netv	vorking/3720	(19 credits)
*CIS	102	Introduction to Computers	
		and Information Systems	(3)
*PCT	120	Cisco Networking I	(4)
*PCT	122	Cisco Networking II	(4)
*PCT	124	Cisco Networking III	(4)
*PCT	126	Cisco Networking IV	(4)
Cisco	Adva	anced Networking/3721	(16 credits)
*PCT	220	Cisco Networking V	(4)
*PCT	222	Cisco Networking VI	(4)
*PCT	224	Cisco Networking VII	(4)
*PCT	226	Cisco Networking VIII	(4)
Voice	Over	r IP Certificate/3755	(28 credits)
*PCT	120	Cisco Networking I	(4)
*PCT	122	Cisco Networking II	(4)
*PCT	124	Cisco Networking III	(4)
*PCT	126	Cisco Newtorking IV	(4)
*PCT	116	Voice and Data Cabling	(4)
*PCT	140	IP Telephony I	(4)
*PCT	142	IP Telephony II	(4)
*Cours	e has a	a prerequisite—refer to course description	section in
this out	alog		

WEB INFORMATION TECHNOLOGY #3900

Degree conferred: Associate in Applied Science – 66 Credits

Program contact: Division of Business/Computers & Information Systems (815) 921-3101

The Business/Computers & Information Systems Division also offers degrees in programming and networking. For information on these A.A.S. degrees, please see the Computer and Information Systems and the Personal Computer Technical Specialist programs elsewhere in this catalog.

Program overview

Graduates of this program are prepared for a career in Web site programming and support. Thus, students will not only be able to design Web pages, but apply technical specifications to bring them to life. There are two paths in this program suited to different career interests.

Option A: This path prepares students to be a Web programmer, Web designer, Webmaster, or graphics designer.

Option B: In this path, students will learn the skills they need to be a Web programmer, LAN/WAN administrator, systems administrator, or Internet/Intranet systems administrator.

Work and employment

Graduates of this program often work as Web programmers, Web programmer assistants, Web server systems administrators, Web designers, or Web media developers.

CIS D	ivisio	on Course Requirements	(51 cred	its)
Requir	ed for	both paths	(33 cred	its)
CIS	102	Introduction to Computers and		
		Information Systems		(3)
*CIS	180	Introduction to Visual Basic Programming	g, or	
*CIS	240	Introduction to Java Programming, or		
*CIS	276	Introduction to C/C++ Programming		(4)
*CIS	254	Database Programming		(4)
*PCT	110	Network Essentials		(3)
*WEB	101	Programming Related to the Internet		(4)
*WEB	102	Advanced Programming Related to the Ir	iternet	(4)
*WEB	111	Introduction to Multimedia		(3)
*WEB	233	Web Programming Using Client-Side		
		Scripting		(4)
*WEB	230	Web Rapid Application Development, or		
*WEB	235	Web Programming Using Server-Side Scr	ipting	(4)
Choose	e one	area of specialization.		
Web \$	Site F	Programming and Design	(18 cred	its)
*WEB	112	Advanced Multimedia		(3)
*WEB	115	Introduction to Digital Imaging		(3)
*WEB	225	Digital Photography		(3)
With th	ne app	roval of the Business/CIS Associate		
Dean, s	select	courses with any of the following		
prefixe	s: CIS	, PCT, or WEB.		(9)
Web I	Progr	ammer or Internet/Intranet		
Syste	ms A	dministrator	(18 cred	its)
*PCT	112	Windows Server Fundamentals		(3)
*PCT	270	Introduction to Unix/Linux		(3)
*PCT	210	Introduction to TCP/IP		(3)
With th	ne app	roval of the Business/CIS Associate Dean, s	select cou	irses
with ar	ıy of tl	he following prefixes: CIS, PCT, or WEB.		(9)
Gene	ral Ec	lucation Course Requirements	(15 cred	its)
* ENG	101	Composition I		(3)
*ENG	103	Composition II, or		
*ENG	105	Business Communication, or		
*ENG	110	Introductory Technical Writing		(3)
*SPH	131	Fundamentals of Speech, or		
SPH	141	Business and Professional Speech		(3)
*MTH	120	College Algebra, or		
*MTH	160	Topics From Finite Mathematics, or		
*MTH	220	Elements of Statistics		(3)
BUS	170	Intro to Organizational Behavior, or		
PSY	170	General Psychology, or		
SOC	190	Introduction to Sociology		(3)

*Course has a prerequisite—refer to course description section in this catalog.

CRIMINAL JUSTICE

#7800

Degree conferred: Associate in Applied Science – 69 credits

Limited transferability

Program contact: Division of Allied Health and Human Services, (815) 921-3200

Program overview

Graduates of this program are qualified to enter most local and state law enforcement agencies and private security firms. With experience and additional training or education, there are opportunities for graduates to advance into areas of specialization and management.

Work and employment

Opportunities include positions in law enforcement, crime prevention, probation, corrections, court records, communications/dispatch, and security/loss prevention.

More about the program

It is important for students to consider their career goals when they begin course work for the Criminal Justice program. Since the degree is also designed for limited transfer to select four-year schools, future educational plans should be considered when building course schedules. Some students have career and academic plans that are more directed towards transfer to a four-year school to earn a Bachelor's degree in a Criminal Justice related field. For these students completion of RVC's Criminal Justice A.A.S. degree may not be the best choice. Instead, these students should consider completion of an Associate of Arts degree at Rock Valley College, using selected transferable courses from the CRM curriculum as electives toward the degree. Courses from the Criminal Justice A.A.S. curriculum that are transferable to a fouryear degree are indicated with the symbol "+" in the program curriculum description that follows. For more information about the Criminal Justice program, contact the Division of Allied Health and Human Services at (815) 921-3200.

Crimi	nal J	ustice Course Requirements:	(45 credits)
*CRM	105	Police Report Writing	(3)
+ CRM	120	Criminal Investigation	(3)
CRM	125	Criminal Procedure and Civil Rights	(3)
CRM	127	Ethics in Law Enforcement	(3)
$+\mathrm{CRM}$	225	Juvenile Procedures	(3)
CRM	281	Rules of Evidence	(3)
*CRM	282	Interviews and Interrogations	(3)
+CIS	102	Introduction to Computers and	
		Information Systems	(3)
*HSR	140	Survey of Psychiatric Rehabilitation	(3)
Electiv	ves: Se	elect 18 credits from the following:	
+ CRM	101	Introduction to Law Enforcement	(3)
CRM	102	Introduction to Probation and Parole	(3)
CRM	103	Introduction to Corrections	(3)
CRM	104	Introduction to Private Security	(3)
$+\mathrm{CRM}$	210	Criminal Law	(3)
*CRM	260	Police Organization and Administration	(3)
CRM	271	Patrol Procedures	(3)
CRM	283	Special Topics in Police Science	(3)
*CRM	291	Internship	(1-6)

Gener	al Ed	lucation Course Requirements:	(24 credits)
*ENG	101	Composition I	(3)
SPH	201	Interpersonal Communications	(3)
PSC	160	American National Government	(3)
PSC	161	State and Local Government	(3)
PSY	170	General Psychology	(3)
SOC	190	Introduction to Sociology	(3)
*SOC	291	Criminology	(3)
FWS	265	Personal Fitness and Wellness	(3)
*Cours	e has a	a prerequisiterefer to course description	section in this
catalog			

+CRM Program courses that are typically accepted for transfer.

#5100

DENTAL HYGIENE

Degree conferred: Associate in Applied Science – 81 credits

Limited transferability

Program contact: Dental Hygiene program office, (815) 921-3235

Program overview

Graduates of this program have acquired skills to provide care that supports optimal oral health, including educational, clinical, and therapeutic services. Skills are mastered through classroom, laboratory, and clinical experiences to provide well-rounded career preparation.

Work and employment

A career in dental hygiene offers opportunities in multiple settings. Hygienists are part of a dental health team, working under the direction of a licensed dentist. Dental hygienists can work in private dental offices, where they perform many critical services that detect, prevent, and treat diseases. They also work in hospitals or nursing homes, extended care facilities, schools, correctional facilities, health maintenance organizations, and other settings, including higher education institutions where they serve as faculty members.

Professional credential and program accreditation Graduates are eligible to take board exams that lead to state licensure. The program is fully accredited by the Commission on Dental Accreditation (CODA) under the auspices of the American Dental Association (ADA).

Admission to the program

Admission is selective and competitive. Prerequisite course work in chemistry, biology, and mathematics is required. Application to the program involves advance planning to ensure the right prerequisites are taken. The Dental Hygiene program holds informational sessions that cover prerequisites and other important information. Attendance of a session is required to receive an application packet for the program. For details on information sessions, call the Dental Hygiene program office at (815) 921-3235.

Dental Hygiene admission policies

Admission to the Dental Hygiene program is by one of two categories, high school graduate or college transfer student. The high school graduate criteria are for applicants who have completed all of the program's prerequisite courses while in high school and who have not taken any other college course work prior to applying for the program. The college transfer criteria are for applicants who have taken college-level coursework since graduating high school. Applicants are reviewed for admission based on the following criteria:

- 1. High school graduate criteria:
 - a. Graduation from a recognized high school with a grade average of 2.5 or better (on a 4.0 scale).
 - b. ACT requirement: Students requesting application to the program with no previous college credits (less than 15 credit hours) must submit ACT scores. A minimum composite score of 19 on the ACT is required for review of the application.
 - c. The following college-level prerequisites must be completed no later than the end of the summer semester prior to starting the program in the fall: BIO 281, CHM 110 & 210, ENG 101 and ENG 103
- 2. College transfer student criteria:
 - a. Post-secondary credit hours: Completion of 15 semester hours of college credit with a college grade point average of 2.5 or better (on a 4.0 scale).
 - b. Prerequisite course GPA: Completion of eight semester hours of college credit in biology with a grade point average of 2.5 or better (on a 4.0 scale).
 Approved courses in biology include: Biology 281, Biology 282, and Biology 274 or an equivalent course as approved by Rock Valley College.
- 3. *Chemistry requirement:* Chemistry 110 and 210 at Rock Valley College, or its equivalent, with at least a minimum grade of "C."
- 4. *Math requirement:* Completion of one year of high school algebra with at least a minimum grade of "C" or completion of Math 092 or as required to meet CHM prerequisite at Rock Valley College, or its equivalent, with at least a minimum grade of "C."
- 5. *English requirement:* English 101 at Rock Valley College, or its equivalent with at least a minimum grade of "C."
- 6. *Placement test scores:* Completion of the Rock Valley College placement tests in math, English, and reading. with satisfactory scores. See p. 13
- 7. *Dental Hygiene observation:* Observation of a dental hygienist, in a dental office for four hours. Documentation should by on official professional letterhead stationary and mailed directly to the Dental Hygiene Program from the dentist office. In addition, you will also be required to spend 4 consecutive hours observing in the RVC Dental Hygiene Clinic. (Call 815-921-3235 to schedule.)
- 8. Dental Hygiene information session: Applicants must attend an information session on the Dental Hygiene program, one hour in length within 18 months of the February 15th deadline for applying for admission. This session is by appointment only and must be completed prior to the application deadline for the term of admission.

Dental Hygiene admission process

Application requirements

Admission to the Dental Hygiene program requires that applicants submit the following:

- 1. Official application for admission to Rock Valley College.
- 2. Official application for Allied Health Careers, Dental Hygiene.
- 3. High school transcripts or GED scores.
- 4. Official transcripts from colleges attended other than RVC.
- 5. Official ACT scores. (High school graduate criteria only)
- 6. Documentation of dental hygiene observation submitted on official letterhead.

All documentation, transcripts, and dental hygiene observation must be mailed directly to the college from the official agency or college.

Admission procedure

The following policies will be followed in reviewing all applicants for admission to the Dental Hygiene program.

- 1. A completed application and other required documents must be submitted to the Dental Hygiene program office on or before February 15 in order for an applicant to be considered for the next fall term. The Dental Hygiene Office will stamp all application materials with the date of receipt. Only completed applications are reviewed for admission. Students are notified of admission within 10 weeks of the admission deadline.
- 2. The Dental Hygiene Standards Committee reviews all applications where the applicant meets admission requirements. Selection for admission to the Dental Hygiene program is competitive and is based upon the Criteria for Admission to the Dental Hygiene program. Admission criteria are weighted with preference given to the following:
 - a. ACT score of 21 or above. (High school graduate criteria only)
 - b. Grade point average of 3.0 or above in biology courses.
 - c. Grade of "B" or higher in English 101 and CHM 110/210.
 - d. Number of courses completed in the general education requirements for the program including Speech 131, Psychology 170, Sociology 190, and English 103.
- 3. All courses required for the Dental Hygiene program must be completed with a grade of "C" or better to be admitted to the program. Course requirements in the sciences will only be accepted for meeting program requirements if completed within five years of the first term of enrollment in the Dental Hygiene program.
- 4. Cooperative Community Colleges: Qualified applicants who are residents in a district with a cooperative agreement with Rock Valley College are admitted to the program. Admission slots for the cooperating institutions are determined by a review of open dental hygiene positions in the northern Illinois region.
- 5. Re-application: Applicants reviewed and not admitted to the program for one starting class are responsible for reactivating and updating their application file for subsequent starting classes. Only an applicant who returns a signed Letter of Intent form will be considered for admission in the following year.

- 6. Advance placement: Students requesting admission as an advance placement will be considered for admission as space is available in the program. Advance placement students are reviewed on the basis of the following criteria:
 - a. The American Dental Association Commission on Accreditation accredits the previous program attended.
 - b. The student GPA in all dental hygiene courses previously completed is 3.0 or better.
 - c. Previous enrollment is not more than three years from the date of anticipated enrollment in the Rock Valley College Dental Hygiene program.
 - d. Course work received in transfer is evaluated as equivalent to Rock Valley College Dental Hygiene courses. Validation of previous didactic and clinical course work may be required.

Standard for progression in the program

Students are required to earn at least a minimum grade of "C" in each course in the Dental Hygiene program of study.

Failure to do so will prevent a student from taking later courses in the program or from graduating.

Denta	al Hyg	giene Course Requirements: (8	54 credits)
*DNT	102	Preventive Dental Hygiene	(1)
*DNT	104	Dental Anatomy, Histology and Embryold	ogy (3)
*DNT	106	Head and Neck Anatomy	(3)
*DNT	108	Pre-Clinical Dental Hygiene	(4)
*DNT	110	Nutrition and Biochemistry	(2)
*DNT	112	Clinical Dental Hygiene I	(2)
*DNT	113	Dental Hygiene Theory I	(2)
*DNT	114	General and Oral Pathology	(3)
*DNT	116	Dental Radiology	(3)
*DNT	118	Dental Pharmacology	(2)
*DNT	120	Introduction to Periodontics I	(2)
*DNT	210	Dental Materials	(3)
*DNT	212	Clinical Interim	(2)
*DNT	213	Introduction to Dental Hygiene Research	(1)
*DNT	214	Periodontics II	(2)
*DNT	215	Pain Management in Dental	
		Hygiene Practice	(3)
*DNT	216	Clinical Dental Hygiene II	(4)
*DNT	217	Dental Hygiene Theory II	(1)
*DNT	218	Dental Ethics, Jurisprudence	
		and Practice Management	(2)
*DNT	220	Community Dental Health	(3)
*DNT	224	Clinical Dental Hygiene III	(4)
*DNT	225	Dental Hygiene Theory III	(2)
Gene	ral Ed	lucation Course Requirements:	(27 credits)

*BIO	281	Human Anatomy and Physiology I	(4)
*ENG	103	Composition II	(3)
*BIO	282	Human Anatomy and Physiology II	(4)
*BIO	274	Microbiology	(4)
*SPH	131	Fundamentals of Communication	(3)
*SOC	190	Introduction to Sociology	(3)
*PSY	170	General Psychology	(3)
Electiv	es Se	elect 3 credits from Humanities	

Electrocs. Beleet 5 creats from fundaments.

*Course has a prerequisite--refer to course description section in this catalog.

Cooperative community colleges are Blackhawk Technical College,

Elgin Community College, Kishwaukee College, Highland Community College, Illinois Valley Community College, McHenry County College and Sauk Valley Community College.

Engineering Careers

ELECTRONIC ENGINEERING TECHNOLOGY

#8400

Degree conferred: Associate in Applied Science – 66 credits

Program contact: Division of Engineering and Technology, (815) 921-3101.

Program overview

Graduates of the EET program have the necessary skills to use electronic test equipment to make measurements, understand electrical schematics and blueprints, analyze electronic circuits and understand fundamental design concepts, relate the principles of electrical circuits to hydraulic circuits and pneumatics. The graduates are ready to support manufacturing, design test equipment, produce and test products, and to assist in product development.

Work and employment

Successful graduates secure positions as test equipment designers, quality assurance and reliability specialists, sales and service professionals, telecom technicians, medical equipment experts, or as part of a manufacturing support team.

Hands-on learning

Most EET classes include a hands-on laboratory component taught by instructors with industrial experience. You will learn how to use electronic test equipment like oscilloscopes, function generators, and digital multi-meters.

Transfer opportunities

Graduates have the option to pursue a baccalaureate from Northern Illinois University and other select universities.

Certificates available

– Basics Electronics Certificate

– Electronics

Course Requirements: (50 credits) (50 credits) Core requirements: EET 125Electronic Fabrications Skills (2)**Digital Electronics** *EET 135 (4)*EET DC/AC Circuits & Electronics I (4)141 *EET DC/AC Circuits & Electronics II 142 (4)*EET 240 DC/AC Circuits & Electronics III (4)*EET 251Microcontrollers & Interfacing (4)*EET 254Robotics & Automated Systems (3)*EET 282 Capstone Project (3)*EET 298 EET Seminar (3)MET 111 **CNC** Machining (3)MET 100 Intro CAD & Blueprint Reading (3)*MET 146 Hydraulics, Pneumatics, & PLCs (3)MET Applied Physics 162(4)Electives: Select 6 credits from the following: *EET 168 Electronic Engineering Technology Internship, or (1-6)*EET 219 Fundamentals of Electric Motors and Controls, or (3) EET 231 Transform Circuit Analysis (4)Programmable LogicControllers (PLCs), or *EET 239(3)Sensors, Transducers, and *EET 242 Signal Conditioning, or

Lon	101	introduction to Engineering	(2)
*EGR	101	Engineering Technology, or Introduction to Engineering	(1-6)
*EET	299	Special Topics in Electronic	(1.0)
		Signal Processing, or	(3)
*EET	285	Introduction to Digital	
*EET	275	Wireless Electronics, or	(3)
*EET	265	Audio Electronic Systems, or	(3)
*EET	261	Advanced Microcontrollers, or	(3)
*EET	245	Control Systems, or	(3)

*ENG	101	Composition I	(3)
*ENG	110	Technical Writing	(3)
*MTH	125	Plane Trigonometry, or	(3)
*MTH	132	Precalculus Mathematics, or	(5)
*MTH	100	Technical Mathematics	(5)
Scienc	e Elec	ctives: Select 4 credits from the following:	
PHY	201	Mechanics and Heat, or	(4)
CHM	120	General Chemistry I, or	(4)
BIO	103	Introductory Life Science and	(3)
BIO	104	Intro Life Science Laboratory, or	(1)
BIO	106	Environmental Science and	(3)
BIO	107	Environmental Science Lab	(1)
Genera	l Educ	cation Elective: Select 3 credits from the Liberal A	rts
		1 IDE DOG DITO COO I I	

Area (Example: ART, ECO, ENG, SOC, etc.)

*Course has a prerequisite—refer to course description section in this catalog.

Certificates

Basic	Elec	tronics Certificate EET/8401	(50 credits)
EET	125	Electronic Fabrication Skills	(2)
*EET	135	Digital Electronics	(4)
*EET	141	DC/AC Circuits & Electronics I	(4)
*EET	142	DC/AC Circuits & Electronics II	(4)
*EET	240	DC/AC Circuits & Electronics III	(4)
*EET	251	Microcontrollers & Interfacing	(4)
*EET	254	Robotics & Automated Systems	(3)
*EET	282	Capstone Project	(3)
*EET	298	EET Seminar	(3)
EET	Elect	tive	(3)
EET	Elect	tive	(3)
MET	111	CNC Machining	(3)
MET	100	Intro CAD & Blueprint Reading	(3)
*MET	146	Hydraulics, Pneumatics, & PLCs	(3)
* MET	162	Applied Physics	(4)
Electr	onic	s Certificate EET/8414	(27 credits)
EET	125	Electronic Fabrication Skills	(2)
*EET	135	Digital Electronics	(4)
*EET	141	DC/AC Circuits & Electronics I	(4)
*EET	142	DC/AC Circuits & Electronics II	(4)
MET	111	CNC Machining	(3)
MET	100	Intro CAD & Blueprint Reading	(3)

ELECTRICIAN APPRENTICESHIP #9900

Hydraulics, Pneumatics, & PLCs

Applied Physics

Degree conferred: Associate in Applied Science – 64 credits

Transferable degree

*MET 146

*MET 162

Program contact: Division of Technical Programs, (815) 921-3003

Program overview

The Electrician Apprentice program consists of a series of technical core courses covering the required classroom-related instruction for people who wish to become jour-neyman electrical workers. The program requires a minimum of 800 hours of related instruction and 8,000 hours of on-the-job training.

2009 – 2011 Catalog

Work and employment

Those who successfully complete the Electrician Apprentice program are employed as residential or commercial wiremen, linemen, and/or advanced journeypersons.

Cooperative partners involved

Both the National Electrical Contractors Association and the International Brotherhood of Electrical Workers recognize, sponsor, and support this program to provide the highly-skilled workforce necessary to meet customer needs and ensure job satisfaction for electrical workers.

Applying for the program

Students interested in applying for the program need to go through a selection process established by the JATC Local Union 364. For more information, call the Technical Programs Office at (815) 921-3003.

Certificate available

- Electrician Apprenticeship Certificate

Electrician Apprenticeship

Cours	se Re	quirements:	(49 credits)
ELC	120	Introduction to Apprenticeship	(4)
*ELC	121	Electrical Theory and Code	(4)
*ELC	122	Lighting and Transformers	(4)
*ELC	123	Motors and Wiring Systems	(4)
*ELC	243	Alternating Current	(4)
*ELC	244	Electronics Circuitry	(4)
*ELC	245	Motor Control	(4)
*ELC	246	Power Controls	(4)
*ELC	247	Advanced Studies I	(4)
*ELC	248	Advanced Studies II	(4)
*ELC	249	Electrician Internship I (repeat one time)	(1)
*ELC	250	Electrician Internship II (repeat one time	(1)
*ELC	251	Electrician Internship III (repeat one time	e) (1)
*FWS	245	CPR and AED	(1)
WLD	180	Independent Study in Welding	(2)

Gene	ral Ee	ducation Course Requirements:	(15 credits)
*ENG	101	Composition I	(3)
*ENG	103	Composition II, or	
*ENG	110	Introductory Technical Writing	(3)
*SPH	131	Fundamentals of Speech, or	
SPH	141	Business and Professional Speech	(3)
BUS	170	Human Relations in Business	(3)
*MTH	100	Technical Mathematics, or	(5)
*MTH	160	Topics in Finite Mathematics, or	(3)
*MTH	125	Plane Trigonometry	(3)

*Course has a prerequisite—refer to course description section in this catalog.

Certificate

(3)

(4)

Electrician Apprenticeship/9913

Core	Requ	irements:	(42 credits)
ELC	120	Introduction to Apprenticeship	(4)
*ELC	121	Electrical Theory and Code	(4)
*ELC	122	Lighting and Transformers	(4)
*ELC	123	Motors and Wiring Systems	(4)
*ELC	243	Alternating Current	(4)
*ELC	244	Electronics Circuitry	(4)
*ELC	245	Motor Control	(4)
*ELC	246	Power Controls	(4)
*ELC	247	Advanced Studies I	(4)
*ELC	248	Advanced Studies II	(4)
WLD	180	Independent Study in Welding	(2)

*Course has a prerequisite—refer to course description section in this catalog.

FLUID POWER TECHNOLOGY #7611

Certificate

Program contact: Division of Technical Programs, (815) 921-3000

Program overview

Graduates of this 12-credit certificate program are prepared in the basic areas of hydraulics and pneumatics technology. Fluid power technicians are adept in the operation, maintenance, repair, and testing of fluid power equipment or components in factory settings.

Work and employment

Fluid Power opportunities exist in industry as well as in agriculture, aerospace, biomedical, and construction trades.

Fluid	Pow	er Certificate Requirements	(12 credits)
FLD	100	Introduction to Fluid Power	(3)
*FLD	115	Hydraulic Components and Circuits	(3)
*FLD	120	Fundamentals of Pneumatics	(3)
*FLD	140	Fluid Power Circuits and Systems	(3)

*Course has a prerequisite—refer to course description section in this catalog.

#4000

INDUSTRIAL COMPUTER SYSTEMS

Degree conferred: Associate in Applied Science – 65 credits

Program contact: Division of Engineering and Technology, (815) 921-3101

Program overview

Graduates of this program have developed the knowledge, communication skills and management ability to interface with and between a variety of manufacturing or other industry professionals. The graduates are prepared for a position that maintains, repairs or installs machinery in factories, stores, or health care facilities. ICS graduates understand electronics for technical support, programming in order to correct and modify source code, and networking in order to mitigate and expand networks.

Work and employment

Graduates of this program might work any place where machinery exists. ICS graduates have the training and knowledge to install, maintain and repair machines of all types.

Transfer opportunities

Graduates interested in pursuing their baccalaureate degree in this field may transfer to Illinois State University. Students interested in this option should contact Illinois State University early in their college career.

Industrial Computer Systems					
Course Requirements: (40 credits)					
Requir	red cor	urses: (31	credits)		
CIS	102	Introduction to Computers and			
		Information Systems	(3)		
*CIS	180	Introduction to Visual Basic Programming, or			
*CIS	276	Introduction to C/C++ Programming	(4)		
*EET	141	DC/AC Circuits & Electronics I	(4)		
*EET	142	DC/AC Circuits & Electronics II	(4)		
*EET	240	DC/AC Circuits & Electronics III	(4)		
*EET	135	Digital Electronics	(4)		
*EET	125	Electronics Fabrications Skills	(2)		
*MET	146	Hydraulics, Pneumatics & PLCs	(3)		
*PCT	110	Networking Essentials, or	(3)		
*PCT	120	Cisco Networking I	(4)		
Electiv	ves: (9	credits)			
With th	ie appi	roval of the Engineering and Technology Assoc	iate		
Dean, s	select (courses with any of the following prefixes:			
CIS, PO	CT or H	EET.	(6)		
,					

With the approval of the Engineering & Technology Associate Dean, select a course with the PCT prefix. (3)

Gene	(25 credits)		
*ENG	101	Composition I	(3)
*ENG	103	Composition II	(3)
*SPH	131	Fundamentals of Communication	(3)
*MTH	160	Topics in Finite Math	(3)
BUS	101	Introduction to Business	(3)
*BUS	223	Business Statistics	(3)
CHM	120	General Chemistry I	(4)
PSY	170	General Psychology	(3)
*Cours	e has	a prerequisite-refer to course description	n
sectior	ı in thi	is catalog.	

MANUFACTURING ENGINEERING TECHNOLOGY #8800

Degree conferred: Associate in Applied Science – 65 credits

Program contact: Division of Engineering and Technology, (815) 921-3101

Program overview

Today's manufacturing is impacted by global competition forcing the need to accelerate product design and development. Graduates of this program are prepared for interdisciplinary careers in high-tech manufacturing and industrial technology. The areas of emphasis are modern design methods, production, and continuous improvement techniques.

Work and employment

In addition to the areas of product design, 3D CAD modeling, process planning, production scheduling, quality technician, and CNC programming and operation, a graduate of this degree may assume responsibilities in automated production, technical sales, and problem solving in many other areas of today's dynamic world of manufacturing.

Important Information

Graduates of this program are qualified and encouraged to pursue the Society of Manufacturing Engineers (SME) Certified Manufacturing Technologist (CMfgT) certification.

Transfer opportunities

This program provides the first two years of an engineering technology baccalaureate program. Graduates may transfer with articulated credit to universities such as Bradley University, Northern Illinois University, Illinois State University, MSOE, Southern Illinois University and UW Platteville.

Program Contact:

Division of Engineering and Technology, (815) 921-3101.

Manufacturing Engineering Technology

Core	Cours	e Requirements:	(41)	credits)
* MET	110	Manufacturing Processes I		(3)
MET	111	CNC Machine Setup/Operation/Programm	iing	(3)
MET	243	Continuous Improvement in Manufacturin	ıg	(3)
MET	100	Introductory CAD and Print Reading		(3)
* MET	105	Materials and Processes		(3)
MET	133	Graphics/SolidWorks CAD I		(3)
* MET	146	Hydraulics, Pneumatics, and PLCs		(3)
* MET	162	Applied Physics		(4)
* MET	217	Statics		(3)
* MET	218	Strength of Materials		(3)
* EET	141	DC/AC Circuits & Electronics I		(4)
* EET	254	Robotics and Automated Systems		(3)
* MET	106	Metrology		(3)
Stude	nts n	nust select one of the following		
areas	of en	nphasis:	(9	credits)
Mecha	anica	l Design		
* MET	220	Mechanisms		(3)
* MET	221	Machine Design		(3)
* MET	249	Manufacturing Capstone Project		(3)
OR				
Auton	nated	Production		
* MET	226	CNC/CAM Operations I		(3)
* MET	247	Mfg. Methods, Process Planning and Syste	ems	(3)
* MET	249	Manufacturing Capstone Project		(3)
* Cours	e has a	a prerequisite—refer to course description	L	
sectio	n in th	is catalog.		
Gener	al Ed	ucation Course Requirements:	(15	credits)
* ENG	101	Composition I		(3)
* ENG	103	Composition II, <u>or</u>		
ENG	110	Introductory Technical Writing		(3)
* MTH	125	Plane Trigonometry, <u>or</u>		(3)
MTH	132	Pre-calculus Mathematics, <u>or</u>		(5)
MTH	100	Technical Mathematics		(5)
SPH	131	Fundamentals of Communication		(3)
MTH	XXX	Mathematics Elective		

Certificates

CAD #881	0 (15 cre	edits)
MET 110	Manufacturing Processes I	(3)
MET 100	Introductory CAD and Print Reading	(3)
MET 108	Computer Drafting using AutoCAD	(3)
MET 133	Graphics/SolidWorks CAD I	(3)
MET 233	Graphics/SolidWorks CAD II, <u>or</u>	
MET 118	Intermediate AutoCAD – Production Drafting	(3)
CNC #8820	D (18 cro	edits)
MET 110	Manufacturing Processes I	(3)
MET 111	CNC Machine Setup/Operation/Programming, or	(3)
MET 120	CNC Machine Setup/Operation, and	(2)
MET 121	Fundamentals of CNC Manual Programming	(2)
MET 100	Introductory CAD and Print Reading	(3)

MET	100	Introductory CAD and Print Reading	(3)
MET	133	Graphics/SolidWorks CAD I	(3)
MET	226	CNC/CAM Operations I	(3)
MET	240	CNC/CAM Operations II	(3)

#7500

Basic	Qual	ity #8830	(18 credits)
MET	110	Manufacturing Processes I	(3)
MET	100	Introductory CAD and Print Reading	(3)
MET	102	Methods of Statistical Process Control (S	PC) (3)
MET	106	Metrology	(3)
MET	243	Continuous Improvement in Manufacturin	ıg (3)
MET	237	Design of Experiments, or	(4)
MTH	220	Elements of Statistics	(3)
•			(10) 11(-)
Certif	ied IV	lanufacturing Associate #8840	(13 credits)
MET	110	Manufacturing Processes I	(3)
MET	100	Introductory CAD and Print Reading	(3)
MET	106	Metrology	(3)
MET	120	CNC Machine Setup and Operations	(2)
MET	121	Fundamentals of CNC Programming	(2)
Laser	Proce	sses/8850 (ICCB approval pending)	(22 credits)
WLD	151	Fundamentals of Welding Theory	(3)
MET	100	Introductory CAD and Print Reading	(3)
MET	105	Materials and Processes	(3)
MET	162	Applied Physics	(4)
MET	115	Introduction to Laser Processes	(3)
MET	215	Laser Processes I	(3)
MET	225	Laser Processes II	(3)

Degree conferred: Associate in Applied Science –

64 credits Limited transferability

Program contact: Division of Allied Health and Human Services, (815) 921-3200

Program overview

FIRE SCIENCE

Few careers may be as physically challenging—but deeply rewarding as fire service. The tragic events of September 11, 2001 have inspired many college students to enter the fire service and has renewed a great interest in the Fire Science Program. Ever changing technologies and firefighting tactics make the fire service a dynamic and exciting career. The Fire Science program at RVC offers two learning options for students:

- Non-internship option: Intended for experienced firefighters who wish to earn a college degree.
- Internship option: Aimed at college students with no firefighting experience, this option includes classroom instruction, firefighting training at a special training facility, and an internship experience with a fire department.

Work and employment

Graduates have secured positions in fire protection and prevention, firefighting, dispatch/communications, fire equipment manufacturing and sales, and volunteer fire protection. With additional training, graduates can enter the specialties of fire inspection and insurance investigation. Since job opportunities can be competitive, students should have the flexibility to relocate if necessary.

More about the program

Hiring practices for fire service are mandated by civil service legislation. Education is not a guarantee for employment, though educational points are awarded in Illinois for candidates who successfully complete the civil service process and possess an A.A.S. degree in Fire Science. For more information, contact the program office at (815) 921-3200.

Certi – Fire – Fire – Fire – Fire – Fire – Fire	<i>ficate</i> efighti e Serv e Offic e Tact e Prot e Prot	<i>es available:</i> ing Tactics and Fire Equipment rice cer I cics ection and Prevention ection and Tactics	
Fire S	Scien	ce Core Requirements (18 credit	hours)
All st	udent	s, regardless of whether they are going	g to fol-
low S	equei	nce A or Sequence B below, must meet	these
core o	cours	e requirements for the degree.	
FRE	101	Introduction to Fire Protection	(3)
FRE	102	Fire Apparatus Engineer	(3)
*FRE	103	Hazardous Materials Operations	(3)
FRE	118	Building Construction for Fire Protection	(3)
*FRE	206	Management I	(3)
FRE	208	Fire Prevention Principles	(3)
Sequ	ence	A: Non-Internship Option	
Intend	ed for	fire service personnel	
*FRE	207	Management II	(3)
*FRE	216	Tactics and Strategy I	(3)
*FRE	218	Instructor I	(3)
Electro	ves: 12	credit hours of Fire Science	
Sequ	ence	B: Internship Option	
Intend	ed for	traditional college students	(2)
*FRE	180	Essentials of Firefighting I	(3)
*FRE	181	Essentials of Firefighting II	(3)
*FRE	182	Essentials of Firefighting III	(3)
*FRE	240	Fire Protection Internship	(3)
Liecus	ves: 9	credit nours of Fire Science	
Fire S	Scien	ce Electives	
FRE	106	Rescue Practices	(3)
*FRE	112	Vehicle/Machinery Rescue Operations	(3)
*FRE	210	Fire Investigation	(3)
*FRE	217	Tactics and Strategy II	(3)
FRE	219	Instructor II	(3)

FRE	106	Rescue Practices	(3)
*FRE	112	Vehicle/Machinery Rescue Operations	(3)
*FRE	210	Fire Investigation	(3)
*FRE	217	Tactics and Strategy II	(3)
FRE	219	Instructor II	(3)
*FRE	220	Management III	(3)
FRE	225	Management IV	(3)
*FRE	223	Emergency Medical Technician - Basic	(9)
*FRE	250	Special Topics in Fire Science	(1-4)
		Repeatable up to 4 credits	

General Education – 25 credits

Requir	ed G	ieneral Education Courses (16 credits)
*ENG	101	Composition I	(3)
*SPH	131	Fundamentals of Communication	(3)
PSY	170	General Psychology or	(3)
SOC	190	Introduction to Sociology	
4 credit 1	hour l	Physical Sciences and Life Sciences requireme	ent (4)
Select or	ne co	urse from the Life Sciences or Physical Sciences	nces.
The cou	rse m	ust have a lab. Note: CHM 105 is strongly red	commended.

*MTH 100 Technical Mathematics or greater (3)*Course has a prerequisite-refer to course description section in this catalog.

Elective General Education Courses – 9 credits total from the following area(s):

CIS 102; Humanities; Social Science; Mathematics; Physical Science; Life Science; Fitness, Wellness and Sport; or English.

Certificates/Mini-Certificates Fire Service/7501

	Fire 3	ce/7501	(27 credits)	
	FRE	101	Introduction to Fire Protection	(3)
	FRE	102	Fire Apparatus Engineer (FAE)	(3)
	FRE	103	Hazardous Materials Operations	(3)
	FRE	112	Roadway Extrication Specialist	(3)
	FRE	206	Management I	(3)
	FRE	207	Management II	(3)
~ ~	FRE	208	Fire Prevention Principles	(3)
62	FRE	210	Fire Investigation	(3)
	FRE	216	Tactics and Strategy I	(3)

Fire	fightin	g Tactics & Fire					
Equ	Equipment/7523 (9 credits)						
FRE	102	Fire Apparatus Engineer (FAE)	(3)				
FRE	216	Tactics and Strategy I	(3)				
FRE	217	Tactics and Strategy II	(3)				
Fire	Office	er I/7531	(15 credits)				
FRE	206	Management I	(3)				
FRE	207	Management II	(3)				
FRE	208	Fire Prevention Principles	(3)				
FRE	216	Tactics and Strategy I	(3)				
FRE	218	Instructor I	(3)				
Fire	Prote	ction & Prevention/7521	(6 credits)				
FRE	101	Introduction to Fire Protection	(3)				
FRE	208	Fire Prevention Principles	(3)				
Fire	Prote	ction & Tactics/7518	(6 credits)				
FRE	101	Introduction to Fire Protection	(3)				
FRE	216	Tactics and Strategy I	(3)				
Fire	Tactio	cs/7515	(6 credits)				
FRE	207	Management II	(3)				

FITNESS, WELLNESS AND SPORT **#9000**

(ICCB Approval Pending – new program coming in Spring 2010)

Degree conferred: Associate in Applied Science -64 credits

Program Overview

The Fitness, Wellness & Sport degree is designed to provide the first two years of a four year baccalaureate program in sport and recreation management and exercise science. Majors in the career paths related to Fitness, Wellness, & Sport areas study anatomy and physiology, kinesiology, nutrition, methods of teaching and coaching, motor learning, sports psychology, sports sociology, and the history of sport and physical education.

Work and Employment

Students that pursue a degree in Fitness, Wellness & Sport will have the opportunity for employment in elementary or secondary school districts, sport and fitness organizations, professional sport teams, university-based sport and fitness programs, hospitals, and communitybased health promotion.

Two A.A.S. Program Options:

- Exercise Science
- Sport Management

Two Certificates:

- Coaching Education (IHSA Endorsed)
- Personal Training (NSCA Recognized)

Program contact: Division of Fitness, Wellness, & Sport (815) 921-3801

Please contact the Division Office for curriculum and further information about this program.

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Graphic Arts Careers

Degree conferred: Associate in Applied Science – 67 credits

Program contact: Division of Engineering and Technology, (815) 921-3101

Program overview

Students in the program are prepared for a variety of jobs in the printing and publishing industry and related fields of graphic arts. The graphic arts industry is a major employer in Illinois and according to the Printing Industry of Illinois/Indiana, in the metro Chicago area there are 2,423 printing establishments that employ nearly 61,000 people. The annual sales of these companies total more than \$8,270,000,000. (9/2006)

The Graphic Arts Technology Program focuses on developing students with a well rounded education encompassing both the creative and technical aspects of the industry with a focus on the digital production techniques that are changing the world of media delivery.

GRAPHIC ARTS TECHNOLOGY

#8200

Option A Graphics Arts Technology

Degree conferred: Associate in Applied Science – 67 credits

Program contact: Division/Engineering and Technology, (815) 921-3101

Program overview

Practical learning experiences are offered in areas of design, layout and typography, production processes, variable data manipulation, estimating, and screen printing. Students gain in-depth experience working with text and images, page layout, specifying paper and ink selection, process color and Pantone spot colors, job estimating and business practices, and offset press operation, as well as binding and finishing choices.

Work and employment

Program graduates secure jobs in desktop publishing, electronic imaging, press operations, sales and customer service. Skills taught can also be useful for professionals in marketing, and in-house communication.

GRAPHIC ARTS TECHNOLOGY

#8225

Option B Graphic Design

Degree conferred: Associate in Applied Science – 67 credits

Program contact: Division of Engineering and Technology, (815) 921-3101

Program overview

In the Graphic Design program, you will study the concepts of drawing and design, typography, color theory, print processes, digital photography, illustration, page layout, marketing and advertising. In addition, you will learn to work within budget and time constraints, prepare electronic files for printing, choose appropriate printing and paper supplies, interpret and evaluate criticism of design and present a creative rationale to a client.

Work and employment

The Graphic Design program prepares students for entrylevel positions such as graphic designer, graphic artist or production artist.

Graphic Arts Technology

Course Requirements:

Requir	ea for	(15 creaits)	
GAT	101	Introduction to Graphic Arts	(4)
GAT	110	Introduction to Photoshop	(2)
GAT	115	Introduction to Illustrator	(2)
GAT	190	Image Generation and Output	(2)
GAT	220	Advanced Photoshop	(3)
GAT	215	Advanced Illustrator	(2)

Choose one area of specialization:

Graj	phic	Arts #8200	(36 credits)
GAT	178	Introduction to Desktop Publishing	(3)
GAT	180	Introduction to Press Operation	(4)
GAT	241	Intermediate Desktop Publishing	(4)
GAT	280	Press Operation II	(4)
GAT	290	Finishing and Bindery Operations	(3)
GAT	242	Advanced Desktop Publishing	(3)
GAT	255	Color System Management	(3)
GAT	260	Estimating for Graphic Arts Production	(3)
GAT	168	Graphic Arts Internship, or	
		GAT Elective	(6)
BUS	101	Introduction to Business, or	
MKT	260	Principles of Marketing	(3)

Gra	phic	Design #8225	(36 credits)
ART	101	Drawing and Composition I	(3)
ART	102	Drawing and Composition II	(3)
ART	103	Design I	(3)
ART	104	Color Theory, or	
GAT	255	Color System Management	(3)
BUS	101	Introduction to Business	(3)
GAT	150	Typography	(2)
GAT	168	Graphic Arts Internship, or	
		GAT Elective, or ART Elective	(3)
GAT	178	Introduction to Desktop Publishing	(3)
GAT	241	Intermediate Desktop Publishing	(4)
GAT	242	Advanced Desktop Publishing	(3)
MKT	260	Principles of Marketing	(3)
WEB	225	Digital Photography	(3)
Gen	eral	Education	
Cou	rse l	Requirements:	(16 credits)
Requi	red for	r both degrees	
ENG	101	Composition	(3)
MTH	115	General Education Mathematics, or	
MTH	120	College Algebra	(3)
ENG	103	Composition and Literature, or	
SPH	131	Fundamentals of Composition	(3)
BIO	106	Environmental Science and	(3)
BIO	107	Environmental Science Lab	(1)
PSY	170	General Psychology, or	
SOC	190	Introduction to Sociology	(3)
Cert	tifica	ate Prepress/8201	(23 credits)
GAT	101	Introduction to Graphic Arts	(4)
GAT	110	Introduction to Photoshop	(2)
GAT	115	Introduction to Illustrator	(2)
GAT	178	Introduction to Desktop Publishing	(3)
GAT	220	Advanced Photoshop	(3)
GAT	241	Intermediate Desktop Publishing	(4)
GAT	242	Advanced Desktop Publishing	(3)

HUMAN SERVICES #5300

(2)

Graphic Arts Internship, or

GAT Elective

Degree conferred: Associate in Applied Science - 66 credits

$Limited \ transferability$

Program contact: Division of Allied Health and Human Services, (815) 921-3200.

Program overview

GAT

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Graduates of this program are prepared for jobs as a paraprofessional in mental health, corrections, and other community social service agencies dedicated to human service. Course work focuses on learning how to assess, plan, work toward problem resolution, and assist in meeting human needs. It is important to note that the Human Services program is not preparation for a B.S.W. in Social Work. Although course work transfers to some private four-year schools, program credits do not transfer to state universities.

Work and employment

Program graduates typically become generalists in the human services field. They are prepared to work under counselors, psychologists, and social workers in the area of human services.

More about the program

HSR 101 – Introduction to Human Services and ENG 101 – Composition I must be taken prior to or concurrently with enrollment in other Human Services courses. The HSR 101 prerequisite may be waived for students who wish to take a HSR course as a general elective, for professional development, or for personal interest and who are not pursuing the AAS in Human Services. For details, call the program chair's office at (815) 921-3253.

Certificate available:

- Substance Abuse Counseling

Huma	n Ser	vices Course Requirements:	(42 credits)
HSR	101	Introduction to Human Services	(3)
*HSR	102	Introduction to Group Processes	(3)
*HSR	110	Survey of Counseling Theories	(3)
*HSR	120	Introduction to Development Disabilities	(3)
*HSR	140	Survey of Psychiatric Rehabilitation	(3)
*HSR	201	Interpersonal Behavior	(3)
$*\mathrm{HSR}$	203	Family Services	(3)
*HSR	205	Field Placement I	(4)
*HSR	206	Field Placement II	(2)
*HSR	211	Interviewing Techniques	(3)
*HSR	250	Special Topics in Human Services	(3)
Electiv	es: Sel	lect 9 credits from the following:	
CRM	125	Criminal Procedures and Civil Rights	(3)
FWS	235	Alcohol and Drug Education	(3)
CRM	225	Juvenile Procedures	(3)
*HSR	231	Substance Abuse Treatment	(4)
*HSR	232	Substance Abuse Rules and Regulations	(3)
*HSR	250	Special Topics in Human Services	(3)
*HSR	260	Independent Study in Human Services	(1-3)
Gener	al Ed	ucation Course Requirements:	(24 credits)
Requir	rement	ts: 18 credits	
*ENG	101	Composition I	(3)
*SPH	131	Fundamentals of Communication	(3)
PSY	170	General Psychology	(3)
SOC	190	Introduction to Sociology	(3)
*PSY	270	Life-Span Development Psychology, or	
*SOC	299	Marriage and Family	(3)
Electiv	es: Sel	lect 6 credits	
*ENG	103	Composition II	(3)
	MTH	115 or greater	(3-5)
	Scien	ce (AST 202), (BIO 100 or higher),	
	(CHM	I 105 or higher),	
	(GEL	101 or higher),	
	(PHY	201 or higher)	(3-5)

Note: Some courses are not offered every semester/term. Refer to "Course Descriptions" in this catalog for the semester/term when a course will be offered.

*Course has a prerequisite—refer to course description section in this catalog.

Certificate

Subst	ance	Abuse Counseling/5302	(34 credits)
HSR	101	Introduction to Human Services	(3)
* HSR	102	Introduction to Group Processes	(3)
* HSR	110	Survey of Counseling Theories	(3)
* HSR	201	Interpersonal Behavior	(3)
* HSR	203	Family Services	(3)
* HSR	205	Field Placement I	(4)
* HSR	206	Field Placement II	(2)
* HSR	211	Interviewing Techniques	(3)
* HSR	231	Substance Abuse Treatment	(4)
* HSR	232	Substance Abuse Rules and Regulations	(3)
FWS	235	Alcohol and Drug Education	(3

Note: The HSR 205 Field Placement requirement must involve a practicum in a substance abuse treatment/prevention setting. After registering for HSR 205, practicum sites are arranged by the student in consultation with the chair of the Human Services program.

Mass Communication Careers

MEDIA PRODUCTION SPECIALIST

#3950

Certificate: 26 credits

Program contact: Division of Mass Communication (815) 921-3360

Program overview

Graduates of this 26-credit certificate program are prepared to produce a wide range of media projects including multi-format television programs, commercials, public service announcements, short films, and high quality audio products.

Work and employment

Certificate graduates can secure jobs such as a Cinematographer, Director, Producer, Editor, Sound Engineer, Videographer and a variety of other crew positions.

Transfer opportunities

Most of the courses in this certificate program have IAI transfer codes which will aid the student if they decide to pursue an associate of arts degree or a four-year degree.

Media Production Certificate Requirements

Requirements	(26 Credits)
COM 130 – Intro to Mass Communication	(3)
COM 156 – Audio Production I	(3)
COM 157 – Video Production II	(3)
COM 251 – Film History and Appreciation	(3)
COM 252 – International History of Film	(3)
*COM 257 – Advanced Video Production	(3)
COM296 – Documentary Video Production, or	
* COM 297 – Motion Picture Production	(3)
COM 298 – Mass Communication Internship	(1)
*WEB 101 – Programming Related to the Internet	(4)

*Course has a prerequisite—refer to course description section in this catalog.

Nursing Programs

ASSOCIATE DEGREE NURSING PROGRAM

#5400

Degree conferred: Associate in Applied Science - 69 credits

Limited transferability Program contact: Nursing program office, (815) 921-3261

Program overview

The registered professional nurse provides nursing care that emphasizes the whole person using the nursing process for individuals, families and groups in the community. The program of study requires that students with outside responsibilities plan to complete the program in more than two years.

The associate degree in nursing is based upon current nursing practice, including nursing and general education courses. Classroom theory, challenging assignments, skill labs, and clinical experiences will prepare students for an entry-level RN position. The program requires maturity for self-pacing in the learning process. Upon successful completion of the program and demonstrated nursing competence, the graduate is eligible to apply for the NCLEX-RN examination to become licensed as a Registered Nurse.

The LPN Bridge Program is available for Licensed Practical Nurses (LPNs) to apply for an associate degree in nursing at RVC. LPNs must meet the criteria for the LPN Bridge application review process for the Associate Degree nursing program. See the "Admission to the LPN Bridge for the Nursing program" section, which follows.

Work and career advancement

The registered nurse is prepared to work in a variety of healthcare settings, including hospitals, nursing homes, physicians' offices, community health, and home healthcare. Graduates are accountable for maintaining clinical competence. They practice nursing within the scope and standards of registered nurse education and are lifelong professional learners. Graduates are encouraged to seek opportunities to pursue a Bachelor of Science in Nursing through an RN Completion Program.

Program approval and professional licensure The program is approved by the Illinois Department of Financial and Professional Regulation. Program graduates are eligible to take the NCLEX-RN according to the requirements for licensure in the State of Illinois Nursing Practice Act. This exam covers four major categories: safe and effective care environment, health promotion and maintenance, psychosocial integrity, and physiological integrity. Testing in these areas is emphasized along with safe and progressing clinical competence.

Information sessions

Students interested in the nursing program should attend a nursing information session regarding specific admission procedures, requirements, and standards. Call(815) 921-3261 to attend an information session; applications are available when the applicant has completed all admission requirements.

Applicants will need to call (815) 921-2380 to schedule an appointment for an assessment Test of Essential Academic Skills (TEAS). Transfer applicants should submit all transcripts

to the **Rock Valley College Records Office with indication of the intent to apply to the nursing program**.

Associate Degree Nursing program Application and admission policies

Nursing program admission is competitive. Selection for admission is based on above average grades in the biologic sciences as well as in the cumulative and prerequisite GPA.

- 1. A COMPLETE application includes an application to RVC, an application to the nursing program, completed transcript review, and a 1-2 page writing sample of educational, professional and career goals. Admission testing may be required.
- 2. APPLICATION SUBMISSION DATES are
 - ADN/RN: Sept. 1 for Spring Admission; Feb. 1 for Fall Admission
 - Bridge: September 15
- 3. INCOMPLETE APPLICATIONS will not be reviewed.
- 4. Applicants will be considered for admission to Rock Valley College according to college policies governing full-time students including in-district residency proof.
- 5. Admission to the nursing program is by: high school graduate, college transfer, or LPN Bridge criteria.

HS GRADUATE ADMISSION REQUIREMENTS

- 1. Graduation from a recognized secondary school or completion of the GED.
- 2. Admission to Rock Valley College as a degree seeking student
- 3. BIO GPA 3.0 for (9 credits); prerequisite GPA 3.0 or better on a 2.0-4.0 scale
- 4. Current nursing assistant certification (IDPH Approved)
- 5. HS Algebra (2 semesters) within the past five years with a grade of C or better for each semester, including an ACT score of a least 18 in mathematics, 20 in the composite, and a class rank in the upper one-half of the graduating class.
- 6. HS Chemistry (2 semesters) within the past 5 years with at least a C or better.
- 7. Completion of BIO 185 Foundations of Anatomy & Physiology or BIO 281/282 Human Anatomy & Physiology I, II and BIO 274 (within the past five years) with a BIO GPA of at least 3.0.
- 8. PSY 170 General Psychology with a grade of C or better
- 9. TEAS score 80% recommended
- 10. Word processed writing sample and interview with a nursing program representative
- 11. Co-Requisites: FWS 237 Nutrition for Optimum Living and ENG 101 Composition I

COLLEGE TRANSFER ADMISSION REQUIREMENTS

- 1. Transfer credit of 12 or more college credit hours with a grade of C or better
- 2. Admission to Rock Valley College as a degree seeking student
- 3. BIO GPA 3.0 for (9 credits); prerequisite GPA 3.0 or better on a 2.0-4.0 scale; cumulative GPA 3.0 or higher.
- 4. Current nursing assistant certification (IDPH Approved)
- 5. MTH 094 Intermediate Algebra II or higher math course with a grade of C or higher
- 6. CHM 110 General, Organic and Biochemistry I-with a grade of C or better
- 7. Completion of BIO 185 Foundations of Anatomy & Physiology or BIO 281/282 Human Anatomy & Physiology I, II and BIO 274 Microbiology (within the past five years) with a BIO GPA of at least 3.0
- 8. PSY 170-General Psychology with a grade of C or higher
- 9. TEAS Score 80% tile recommended. Complete by application due date.
- 10. Word processed writing sample and interview with a nursing program representative
- 11. Co-Requisites: FWS 237 Nutrition for Optimum Living and ENG 101 Composition I

LPN BRIDGE PROGRAM POLICIES

The concept of the LPN/Bridge program is articulation between the knowledge and skills that a Licensed Practical Nurse has acquired and the scope of practice of the Registered Nurse. LPN's who meet admission requirements and who successfully complete the LPN Bridge courses will receive nursing credits-in-escrow. The student completes the second year nursing courses over the next two semesters. This program is directed toward LPN's who are self starters with excellent learning skills and current clinical knowledge.

LPN BRIDGE ADMISSION REQUIREMENTS

The LPN Bridge program is designed to prepare licensed practical nurses to enter the Associate Degree Nursing program at Rock Valley College. Students admitted to the LPN Bridge program are required to complete Nursing 210 and all prerequisite course requirements for the Associate Degree Nursing program. Students are reviewed for admission to the second year of the Associate Degree Nursing program after successful completion of the LPN Bridge requirements.

1. SEE COLLEGE TRANSFER ADMISSION REQUIRE-MENTS

2. Applications for the LPN Bridge program are due September 15 for spring semester admission.

3. Transcripts with documentation of completion of a state-approved Practical Nursing program must be submitted to the nursing program office.

4. Proof of current licensure as a practical nurse in the state of Illinois is part of the application.

REQU	JIRED	COURSES	CREDITS
NRS	108	Altered Health Concepts	3
NRS	207	Pharmacology for Nursing Care	2
NRS	210	Transition to ADN Nursing	3
PNU	107	Practical Nursing Pharmacology, or equivalent	1

REQUIREMENTS LPN > 5 YEARS

Licensed Practical Nursing applicants with licensure exceeding more than five years are eligible for one of two alternate placement options:

- 1. PLACEMENT IN THE LPN BRIDGE: PROFICIENCY TESTING
- Eligibility for this option requires LPN level scores on the ATI tests for Nursing Fundamentals, Pharmacology, Maternal Newborn, and Psychiatric Nursing Content.
- This testing option must be completed by September 1 for the LPN Bridge spring semester placement.
- 2. ADVANCE PLACEMENT IN THE ADN PROGRAM: PROFICIENCY TESTING FOR 2ND SEMESTER PLACEMENT
- The score on the ATI meets the nursing program established benchmark.
- Advanced placement in the second or third semesters of the Associate Degree Nursing program is based on space available in the required course sequence according to lottery as outlined in the Associate Degree Nursing Program Student Handbook.

BRIDGE ESCROW NURSING CREDITS POSTED

Bridge Nursing program students who have completed NRS 108, NRS 207 and NRS 210 with a minimum grade of C and who have met all prerequisite courses with a grade point average of 3.0 are awarded 17 credits in the following courses not to be posted until completion of NRS 232 or NRS 234 (third semester courses) with a minimum grade of C.

		COURSES	CREDITS
NRS	105	Professional Nurse Role I	1
NRS	110	Core Concepts I	2
NRS	111	Core Concepts II	4
NRS	214	Family HLT Nursing	2
NRS	222	Family HLT Clinical	3
NRS	217	Psychiatric Nursing	2
NRS	224	Psychiatric Clinical	3

ADMISSION PROCEDURES

- 1. Complete RVC new, returning, or transfer student admission requirements according to the RVC Course Catalog procedures.
- 2. A separate nursing program application must be completed hereafter referred to as the nursing application.
- 3. The nursing application is dated upon receipt by the Nursing Division Office and must be received by the required application deadlines. Only completed applications and letters of intent received during regular business hours by the due date are reviewed.

- 4. Re-application: Applicants not admitted to the program may submit a new application for each admission review and see an advisor to discuss admission deficiencies.
- 5. Students seeking readmission will be evaluated by the admission committee within the current application schedule according to available space and additional academic remediation and current clinical practice.

ENROLLMENT POLICIES

- 1. Qualified applicants who are residents of Community College District 511 or who reside in a district that has a cooperative agreement with the Rock Valley College will be admitted first. Out-of-district applicants will be admitted only if the nursing class has not been filled and all qualified in-district applicants have been accepted.
- 2. Admitted students are required to maintain the following:
 Admission physical exam & current immunizations
 - Essential abilities as provided in the Student Nurse Handbook: RVC.
 - Background check—a finding may result in inability to complete the program
 - Proof of professional liability, accident/and health insurance
 - Current CPR for the health care provider
 - Current nursing assistant certification (IDPH) or LPN licensure for the Bridge
- 3. A minimum of a C grade must be achieved in each course.
- 4. A student may repeat only one nursing course (theory or clinical) as written in the RVC Student Nurse Handbook.
- 5. Progression criteria must be met according to the policies and procedures provided in the RVC Student Nurse Handbook and course syllabi.

Asso	ciate	Degree Nursing ((69 Credits)
Requ	ired I	VRS Program Courses	(45 credits)
NRS	105	Professional Nurse Role I	(1)
NRS	108	Pathophysiology - Altered Health Concept	s (3)
NRS	110	Core Concepts I - Professional Nursing	(2)
NRS	111	Core Concepts II - Professional Nursing	(4)
NRS	207	Pharmacology for Nursing Care	(2)
NRS	212	Adult Health Nursing II	(2)
NRS	213	Adult Health Nursing I	(2)
NRS	214	Family and Reproductive Health Nursing	(2)
NRS	215	Child and Family Health Nursing	(2)
NRS	217	Psychiatric Nursing	(2)
NRS	218	Adult Health Nursing III	(2)
NRS	222	Family and Reproductive Health Clinical	(3)
NRS	224	Psychiatric Nursing Clinical	(3)
NRS	225	Professional Nurse Role II	(2)
NRS	232	Child and Family Health Clinical	(3)
NRS	234	Adult Health Clinical I	(3)
NRS	242	Adult Health Clinical II	(3)
NRS	244	Adult Health Clinical III	(3)
PNU	107	Basic Principles of Pharmacology for Nurs	(1)

Gene	ral E	ducation Course Requirements.	(18 credits)
BIO	185	Foundations of Anatomy and Physiology	(5)
BIO	274	Microbiology	(4)
PSY	170	General Psychology	(3)
FWS	237	Nutrition for Optimum Living	(3)
ENG	101	Composition I	(3)
Gene	ral Ec	ducation	
Elect	ive R	equirements:	(6 credits)
Stude	nts mag	y choose any approved IAI General Educat	tion Core
Curric	ulum c	course (see pages 33 & 34)	
Recon	mende	ed courses include:	
MTH	220	Elements of Statistics	(3)
PSY	270	Lifespan Developmental Psychology	(3)
SOC	190	Introduction to Sociology	(3)
Note:	NRS 21	10-Transition to Associate Degree Nursing	(3) is a
requir	ed cou	rse for LPN's who are admitted to and are	completing
the LF	N Brid	lge for the Associate Degree Nursing prog	am.

HYBRID ONLINE NURSINGAAS DEGREE#5450

Degree conferred: Associate in Applied Science -71 credits

Limited transferability

Program contact: Nursing program office, (815) 921-3261

Program Overview

This degree combines online nursing classes and face to face labs and clinicals.

Degree approval and professional licensure

The program is approved by the Illinois Department of Financial and Professional Regulation. Program graduates are eligible to take the NCLEX-RN according to the requirements for licensure in the Illinois Nursing Practice Act.

${\it Information\ sessions}$

• Contact www.NIOIN.org

• Attend a hybrid online nursing information meeting

Application requirements

Complete RVC general admission procedure

- Application deadlines will be posted on the hybrid online nursing program's website: www.NIOIN.org
- Meet with an academic counselor to develop an academic plan
- File a nursing program application for the hybrid online program
- Submit three letters of recommendation from employers and/or supervisors with the hybrid online application, using the form distributed at the information meeting

$Out \ of \ district \ applications$

Out-of-district applications to the hybrid online nursing program will be considered only if space is available and there are no qualified indistrict applicants.

Admission requirements

- 1. High school graduate or GED.
- 2. Current CNA on the Illinois Department of Public Health's Health Care Worker Registry.
- 3. Reading/vocabulary at 13th grade level and recommended passing score of 80% on the TEAS (Test of Essential Academic Skills).
- 4. Minimum of three semester credits of online course's which meet nursing program requirements with
- grade of "B" or better.

- 5. Intermediate algebra with a grade of "C" or better (MTH 093 & 094) or the equivalent on a college math placement test.
- 6. High school chemistry with lab with grade of "B" in the last 5 years or college chemistry with lab (CHM 110) with grade of "C" or better.
- 7. Five eight semester credits of college level Anatomy and Physiology and four credits of Microbiology with a grade of "C" or better.
- 8. Cumulative college GPA of 3.0.

Program requirements

- 1. Criminal background checks will be required before enrollment in clinical courses. See handbook for further information.
- 2. All hybrid online nursing courses, both theory and clinical, require a "B" to pass. Students who do not earn a "B" or better will remediate by learning contract and a plan for re-entry, if appropriate, will be developed. No more than one NUR course may be repeated.
- 3. It is recommended that as many general education credits as possible are completed before beginning the nursing curriculum.
- 4. General education courses may be taken for a "C", as long as the overall GPA is a 3.0.

Program contacts

RVC Academic Counselor at 815-921-4100; or www.NIOIN.org

Asso	ciate	of Applied Science	71 Credits
Onlir	ne Nu	rsing Degree Requirements	47 Credits
NUR	178	Pharmacology	2
NUR	179	Fundamentals of Nursing	4
NUR	181	Fundamentals of Nursing Clinical	5.5
NUR	182	Med/Surg I	4
NUR	183	Med/Surg I Clinical	5.5
NUR	280	Family Health	5
NUR	281	Family Health Clinical	3
NUR	282	Med/Surg II	3
NUR	283	Med/Surg II Clinical	3
NUR	284	Professional Roles Nursing	1
NUR	285	Mental Health	2
NUR	286	Mental Health Clinical	3
NUR	287	Med/Surg III	3
NUR	288	Med/Surg III Clinical	3
Gene	ral Fo	ducation Requirements	24 Credits

		adoution noquironionto	ar orcano
BIO	185	Human Anatomy and Physiology I	5
BIO	274	Introductory Microbiology	4
ENG	101	Composition I	3
TWS	237	Nutrition for Optimum Living	3
PSY	170	Intro to Psychology	3
SPH	131	Introduction to Oral Communication	3
PSY	270	Lifespan Developmental Psychology	3

Suggested Program

The online nursing courses are organized to be completed in a two-year sequence.

NURSING AIDE CERTIFICATE #5411

Certificate -

6 credit hours

Non-transferable

Program contact: Nursing program office, (815) 921-3261

Program overview

Nurse assistants are in great demand with the current shortage of nursing personnel. This program prepares students to enter the health care workforce. Nurse assistants work as caregivers in all types of healthcare facilities and agencies. As health team members, nursing assistants work under the supervision of nurses and provide routine daily care and essential duties related to patient care. Classroom, skill lab, and clinical attendance are required.

Employment and career mobility

The nursing aide course grade of C or higher, a passing criminal background check, and a passing score on the Nurse Aide Competency Evaluation prepares the student for employment as a Certified Nursing Assistant and for partial completion of nursing program admission requirements. The average salary for a nursing assistant is \$11-13 per hour, in nursing homes or hospitals.

The program is approved by the Illinois Department of Public Health. Students who successfully complete the program are eligible for the Nurse Aide Training Competency Evaluation.

Admission to the program

Enrollment in the course requires one of four testing options: ACCUPLACER Placement Test administered by Rock Valley College Testing Center, or the Certified Nursing Assistant Reading Test administered by RVC Testing Center, or the TABE Test administered by RVC grant programs, or the ACT scores reported from the American College Testing Service. A physical exam, two-step Mantoux TB skin test, and a criminal background check are required and will be initiated the first week of class. The program is 80 hours of theory in the classroom and 40 hours of clinical experience in an area health care facility. NAD 101 Nursing Aide (6)

PRACTICAL NURSING #5404

Certificate - 41 credits

Limited transfer

Program contact: Nursing program office, (815) 921-3261

Program overview

Licensed practical nurses are integral health team members who provide expert care for challenging patients under the direction of the RN. This is a 10 1/2 month program that prepares graduates to take the NCLEX-PN examination to become a Licensed Practical Nurse.

Work and employment

Graduates of the program are qualified to work in healthcare facilities such as nursing homes, home healthcare, physicians' offices, and ambulatory care.

Career advancement

Licensed Practical Nurses can use their education and experience toward an associate degree in nursing at RVC. The LPN Bridge for the Associate Degree Nursing program allows LPNs to complete the nursing program without repeating courses taken in the LPN program. For details, see "LPN Bridge."

Program approval and vocational licensure The program is approved by the Illinois Department of Financial and Professional Regulation. Program graduates are eligible to take the NCLEX-PN according to the requirements for licensure in the Illinois Nursing and Advanced Nursing Practice Act.

Information sessions

Students interested in the nursing program should attend a nursing information session to become familiar with specific requirements admission procedures, and standards. Information about the Nursing program and applications may be obtained by calling (815) 921-3261.

Testing and transcripts

Applicants will need to call (815) 921-2380 to schedule an appointment for the TEAS (Test of Essential Skills).

Transfer applicants should submit all transcripts to the Rock Valley College Records & Registration Office with indication of the intent to apply to the nursing program.

Admission to the program

The applicant pool is competitive; selection for admission is based upon above average grades in anatomy and physiology as well as in the cumulative GPA. There are specific requirements and prerequisites to be admitted to the Practical Nursing program.

Practical Nursing program application, admission policies and requirements

1. APPLICATION procedures

• A COMPLETE application includes an application to RVC, an application to the nursing program, completed transcript review, and a 1 page writing sample of educational, professional and career goals.

- Applications are due April 15 for fall semester admission.
- Applicants will be considered for admission to Rock Valley College according to college policies governing full-time students.Nursing program admission requirements are:

• Graduation from a recognized or accredited secondary school or completion of high school equivalency through the General Educational Development (GED) test

• Admission to Rock Valley College as a certificate seeking student

• Completion of an approved certified nursing assistant course with current certification as a nursing assistant.

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- 3. Prerequisite course requirements are:
- MTH 093 & 094 Intermediate Algebra Part I & II or higher math course approved by the nursing program with a grade of "C" or better; OR HS Algebra (2 semesters) within the past 5 years with a grade of "C" or better for each semester

• CHM 110 - General, Organic and BioChem I with at least a "C"; OR HS Chemistry (2 semesters) within the past 5 years with a grade of "C" or better for each semester

- BIO 185 Foundations of Anatomy & Physiology * with a grade of "B" or better (*completed within the last five years)
- 4. Personal statement and interview: Students with completed applications will be notified of the process for completing an interview with a nursing program representative.
- 5. TEAS to be completed by April 15 at the RVC Testing Center. Score of 80% recommended.

Practical Nursing program enrollment policies

- Good health as certified by a licensed physician or nurse practitioner and completion of Rock Valley College physical exam and immunization records.
- 2. Essential abilities standard as outlined in the Practical Nursing Student Handbook.
- 3. A criminal background check will be required; a positive background check may result in the inability to complete the program.
- 4. Professional liability & accidental injury insurance (available at group rates to nursing students through the college).
- 5. Current CPR certification as a healthcare provider.
- 6. A minimum grade of "C" in all corequisite courses. These courses include: PSY 170 - General Psychology (must be completed by

the end of first senseter).

FWS 237 - Nutrition for Optimum Living *ENG 101 - Composition I (may be completed in the summer/fall semesters).

- 7. A minimum grade of "C" must be achieved in each nursing course. Students receiving a grade below "C" in any required nursing course must repeat the entire course, both theory and clinical.
- 8. Students admitted to the Nursing program are expected to meet all progression criteria including academic and performance standards (clinical standards) with or without reasonable accommodations. These standards are provided in the program's Student Nurse Handbook.
- 9. Repetition of a course requires re-admission to the program and review by the faculty admission committee.

Practical Nursing Certificate

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Requi	reme	ents:	(41 credits)
Practic	Practical Nursing Core Requirements: (2		
* PNU	103	Practical Nursing: Fundamentals	(7)
* PNU	107	Basic Principles of	
		Pharmacology for Nursing	(1)
* PNU	120	Nursing Throughout the Lifespan:	
		Mental Health	(1)
* PNU	140	Nursing Throughout the Lifespan:	
		Conception Through Adolescence	(6)
* PNU	160	Nursing Throughout the Lifespan:	
		Young Adult Through Middle Adult	(6)
* PNU	201	Nursing Throughout the Lifespan: Geriatr	ic (6)

Gener	(14 credits)		
BIO	185	Foundations of Anatomy and Physiology	(5)
PSY	170	General Psychology	(3)
FWS	237	Nutrition for Optimum Living	(3)
* ENG	101	Composition I	(3)

*Course has a prerequisite—refer to course description section in this catalog.

OFFICE PROFESSIONAL #2600

The Office Professional program prepares students for work in office environments where knowledge of office procedures, software/hardware, administrative, and interpersonal skills are required to perform duties.

Graduates of this program exhibit strong communication, interpersonal skills; they are flexible and professional. In addition they possess excellent keyboarding, document formatting skills, and advanced software application skills. Graduates completing this program may be expected to supervise clerical staff.

Degree conferred: Associate in Applied Science – 65 credits

Program Contact: Division of Business/Computers & Information Systems, (815) 921 3101

Program overview

The Office Professional program allows students to focus on one of four areas of office administration: General office, medical office, legal office, or office software application professionals. Under the guidance of the Associate Dean of Business/CIS, students will be able to tailor a program that meets their unique needs.

General Office Professional

The efficiency of any organization depends in part upon office professionals who are at the center of communications within the business. They process and transmit information to the staff and other organization. Graduates of this program will learn a wide range of skills using the latest computer technology.

Medical Office Professional

Graduates of this program are prepared for jobs in an insurance or healthcare office. Job responsibilities vary, and may include appointment scheduling, medical and general document preparation, meeting and event planning, handling receivables, and transcription.

Legal Office Professional

Graduates of this program typically perform administrative work in law firms. Areas in which they could become involved include bankruptcy, business and corporate litigation, criminal, divorce, and family law, wills, trusts, and estates, government law, trademarks and copyright law, personal injury and property damage, probate, real estate, and workers' compensation.

Software Application Support Professional Graduates of this program are adept in computer software and the application of PC's to support business and office systems. Graduates of the program find work in office support and computer user support positions in a variety of office settings.

Work and employment

Graduates from the program find jobs as administrative assistants, administrative secretaries, and office assistants in a variety of office settings.

OFFICE PROFESSIONAL

Busin	ess/C	IS Division Requirements	(38 credits)
*ATG	110	Financial Accounting	(4)
BUS	101	Introduction to Business	(3)
*BUS	103	Business Mathematics	(3)
*MGT	270	Principles of Management	(3)
MKT	288	Customer Relations	(3)
OFF	115	File Management	(2)
OFF	118	Computer Keyboarding	(1)
*OFF	121	Advanced Document Preparation and D	esign (3)
*OFF	122	Office Technology Practicum	(3)
OFF	226	Professional Development	(3)
*OFF	231	Office Procedures	(3)
PUI *DOI	106	Microcomputer Applications/ Windows	(4)
*PCI	206	Advanced Microcomputer	(9)
		Applications/ windows	(3)
Gene	ral Ed	lucation Requirements	(18 credits)
*ENG	101	Composition I	(3)
*ENG	105	Business Communications	(3)
*SPH	131	Fundamentals of Communication	(3)
CIS	102	Introduction to Computers and	
		Information Systems	(3)
_			
Gener	ral Ed	lucation Electives	(6 credits)
Studen	ts mus	t select courses with at least two differen	it prenxes to
rumi I/	AI Gei	Eral Education Core Curriculum requires	nents (exam-
pie: Ar	л, ыс	, ECO, SOC, etc.)	
Choos	se ap	propriate option:	
Optio	n A:	General Office Professional	(9 credits)
Electiv	es:	Choose courses with BUS, ATG, MGT,	. ,
		MKT, OFF, PCI prefixes.	
•	-		(0) 111)
Optio	n B:	Legal Office Professional	(9 credits)
BUS	200	Legal Environment in Business	(3)
Choose	es:	og with DUS ATC MOT MET OFF DO	(6)
Choose	cours	es with BUS, A1G, MG1, MK1, OFF, FUI	prenxes.
Optio	n C:	Medical Office Professional	(9 credits)
HLT	110	Medical Terminology	(2)
OFF	144	Insurance Procedures/Medical Office	(1)
OFF	245	Introduction to Health Information	(3)
		Technology	
BIO	171	Biology of Human Disease	(3)
•	-		
Optior	1 D:	Software Applications Support	(0 aradita)
PCI	180	Introduction to Computer User	(a creans)
. 01	100	Technical Support	(0)
PCI	200	Microcomputer Information Systems	(3)
- 01		Practicum	(0)
PCI	226	Post Advanced Microcomputer	(3)
		Applications/Windows	

CERTIFICATES

Admin	istrati	ve Assistant/2601	(34 credits)		
ATG	110	Financial Accounting	(4)		
ATG	123	General Ledger			
		Software Applications	(2)		
BUS	101	Introduction to Business	(3)		
BUS	103	Business Math	(3)		
OFF	115	File Management	(2)		
OFF	118	Computer Keyboarding	(1)		
OF'F'	121	Advanced Document Preparation	(0)		
ODD	100	& Design	(3)		
OFF	122	Once Technology Practicum	(3)		
OFF	220	Office Presedures	(3)		
DCI	201 106	Microcomputer Applications/	(3)		
FUI	100	Windows	(4)		
PCI	206	Advanced Microcomputer	(4)		
1 01	200	Applications/Windows	(3)		
		rippileations, whiteows	(0)		
Medica	l Tran	scriptionist/2604	(30 credits)		
ENG	105	Business Communications	(3)		
OFF	121	Advanced Document Preparation	(3)		
OFF	122	Office Technology Practicum	(3)		
OFF	137	Machine Transcription	(3)		
OFF	140	Medical Machine Transcription	(3)		
OFF	231	Office Procedures	(3)		
OFF	245	Introduction to Health Technology	(3)		
HLT	110	Medical Terminology	(2)		
BIO	171	Biology of Human Disease	(3)		
PCI	106	Microcomputer Applications/Windo	ows (4)		
			(4.2. 11.)		
Nedica		Ing/2605	(15 credits)		
OFF	147	Loaing	(4)		
OFF	220 245	Intro to Health Information	(3)		
OFF	240	Technology	(3)		
нгт	110	Medical Terminology	(3)		
BIO	171	Biology of Human Disease	(3)		
DIO	111	biology of Human Disease	(0)		
MOS/W	lord/2	606 (approval pending)	(8 credits)		
MOS/W PCI	lord/20	606 (approval pending) Microcomputer Applications/	(8 credits)		
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Office	Office Program Electives				
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OFF	131	Independent Study-			
		Office Software Applications	(1-6)		
OFF	293	Independent Study-			
		Office Technology	(1-3)		
OFF	294	Office Internship	(1-3)		

PARAPROFESSIONAL EDUCATOR #5900

Degree conferred: Associate in Applied Science – 64 credits

Limited transfer degree

Program contact: Teacher Education Programs, (815) 921-3334

Program overview

This program is designed to fulfill the certification requirements of the No Child Left Behind Act. It is intended for teacher aides and paraprofessionals who assist in the instruction of reading, writing, and math in a kindergarten through 12th grade educational setting.

Work and employment

Paraprofessional teacher aides prepare classroom materials, supervise students, and operate AV equipment under the guidance of the teacher. Other tasks include collecting and grading homework and tests, and recording results.

Certificate program also available

The 34-credit Paraprofessional Educator Certificate is a shorter preparation program for paraprofessionals who already have some college credit.

Paraprofessional Educator

Cou	96	nequirements	(22 creans)	
EDU	204	Introduction to Teaching Reading for		
		Elementary Teachers	(3)	
EDU	224	Introduction to Education	(3)	
EDU	202	Children's Literature	(3)	
EDU	234	Introduction to Technology for Teachers	(3)	
EDU	244	Students with Disabilities in Schools	(3)	
*EDU	274	Elementary School Practicum	(1)	
*MTH	216	Math for Elementary Teachers I	(3)	
*PSY	225	Child Development, or		
*PSY	271	Educational Psychology	(3)	
General Education Course Requirements (21 credits)				

			· · · · · · · · · · · · · · · · · · ·
Required courses below			(15 credits)
*ENG	101	Composition I	(3)
*ENG	103	Composition II	(3)
*SPH	131	Fundamentals of Communication	(3)
PSY	170	Introduction to Psychology	(3)
SOC	295	Racial and Ethnic Relations	(3)

Huma	nitie	s and Fine Arts	
(Choos	se one	e course below)	(3 credits)
HUM	111	Introduction to Humanities I:	
		From the Ancient World to 1600	(3)
HUM	112	Introduction to Humanities II:	
		From 1600 to the Present	(3)
HUM	210	Western Cultural Expression of Gender	
		in the Visual and Performing Arts	(3)
LIT		Any Literature Course except	
		for LIT 155	(3)
PHL	150	Introduction to Philosophy	(3)
ART	131	Introduction to the Visual Arts	(3)
MUS	102	Introduction to Music	(3)
MUS	104	Introduction to American Music	(3)
THE	133	Introduction to Theatre	(3)
Math/	Scie	nce	
(Choos	se one	course below)	(3 credits)
*MTH	115	General Education Mathematics	(3)
*MTH	135	Calculus with Analytic Geometry I	(5)
*MTH	160	Topics from Finite Mathematics	(3)
*MTH	211	Calculus for Business and Social Sciences	(4)
*MTH	220	Elements of Statistics	(3)
BIO	100	Introductory Human Biology	(3)
BIO	103	Introductory Life Science	(3)
BIO	106	Environmental Science	(3)
*PGE	100	Physical Geography	(3)
*GEL	101	Introduction to Geology	(4)

Electives (21 credits) Nutrition and Health for the Young Child or CHD 103 FWS 265Personal Fitness and Wellness (3)245Special Education Practicum EDU (1)ART 283 Art in the Elementary Schools (3)Spanish (SPN), German (GRM), French (FRN) Course (4)Abnormal Psychology *PSY 276 (3)*SOC 299 Marriage and Family (3)FWS 211 Drug and Alcohol Education (3)Math for Elementary Teachers II *MTH 217 (3)

(4)

(4)

Fossils and Earth History

Atmospheric Science

Certificate

*GEL 103

*ATS 105

Parap	rofes	sional Education/5901	(34 credits)
EDU	204	Introduction to Teaching Reading	(3)
EDU	202	Children's Literature	(3)
EDU	244	Students With Disabilities in Schools	(3)
EDU	234	Introduction to Technology for Teachers	(3)
EDU	224	Introduction to Education	(3)
*EDU	274	Elementary School Practicum	(1)
*MTH	216	Math for Elementary Teachers I	(3)
*PSY	225	Child Development, or	
*PSY	271	Educational Psychology	(3)
SOC	295	Racial and Ethnic Relations	(3)

Electives - Choose from electives listed in the degree program above (9)

*Course has a prerequisite—refer to course description section in this catalog.

RESPIRATORY CARE PROGRAM #5200

Degree conferred: Associate in Applied Science -71 credits

Limited transferability

Program contact: Division of Allied Health and Human Services.

(815) 921-3200

Program overview

Respiratory therapists provide, under physician orders, all the general, critical care, and diagnostic services important for people with breathing difficulties. Such services include administering oxygen, humidity, and continuous aerosols, as well as aerosolized medications to improve lung function. Therapists also maintain life-support systems for patients who cannot breathe for themselves and may also perform cardiopulmonary procedures. Skills are mastered through classroom, laboratory, and clinical experiences.

Work and employment

Graduates of the program generally work in hospitals, assuming staff respiratory therapist positions or specializing in critical care or diagnostic areas. Other opportunities exist in the home care setting or through advancement into management or educational positions.

Professional credential and program accreditation Graduates of the program are eligible to sit for the National Board for Respiratory Care's exams leading to the Registered Respiratory Therapist credential. This meets or exceeds the requirement for practice in Illinois and any other state. The program is fully accredited by the Committee on Accreditation for Respiratory Care (CoARC) under the auspices of the Commission on Accreditation of Allied Health Programs (CAAHEP).

Admission to the program

Admission is selective and competitive. Prerequisite course work in chemistry, biology, and mathematics is required. For more information, contact the Allied Health and Human Services division office at (815) 921-3200.

Admission policies

Contact the Respiratory Care program chair at (815) 921-3220 or the division secretary at (815) 921-3200 for program application information. To be admitted the applicant must: 1. Meet all college admission requirements.

- 2. Be a high school graduate or have completed the GED. Completion of two semesters of high school chemistry, algebra, and biology (or college equivalent) with at least a grade of "C" is required. At Rock Valley College, completion of Chemistry 099, Mathematics 092, and Biology 100 or 103 will fulfill this requirement.

Admission procedure

Submit a program application; up-to-date transcripts from high school, GED, and/or college; Respiratory Care Program Applicant Questionnaire; and Essential Abilities Questionnaire. This must be done by January 20 prior to the fall term the student plans to enter the program.

Selection is based on college and/or high school grade point average, grades in the prerequisite courses, grades in other math and science courses, general education courses within the program, and selected respiratory care courses taken prior to being accepted into the program.

Criminal Background Check and Drug Testing

Students will undergo a criminal background check and drug testing during the fall semester they begin the program. It is possible that a student's criminal background and/or a positive drug test will prevent participation in hospital clinical practice and program completion.

Standard for progression in the program

At least a minimum grade of "C" is required in BIO 185 -Foundations of Anatomy and Physiology before students can take Respiratory Care program courses.

Students are required to earn at least a minimum grade of "C" in all Respiratory Care courses. Failure to do so will prevent a student from taking later courses in the program or graduating.

R	espii	ratory	/ Care Course Requirements:	(51 credits)
*	RSP	111	Applied Sciences	(3)
*	RSP	112	Patient Assessment	(3)
	RSP	113	Cardiopulmonary Anatomy	
			and Physiology	(3)
*	RSP	114	Clinical Medicine	(3)
*	RSP	121	Respiratory Care Practices and	
			Procedures I	(5)
*	RSP	122	Respiratory Care Practices and	
			Procedures II	(5)
*	RSP	123	Respiratory Pharmacology	(3)
*	RSP	131	Clinical Practice I	(2)
*	RSP	132	Clinical Practice II	(3)
*	RSP	221	Respiratory Care Practices and	
			Procedures III	(3)
*	RSP	222	Cardiopulmonary Testing and	
			Rehabilitation	(3)
*	RSP	223	Respiratory Care Practices and	
			Procedures IV	(4)
*	RSP	224	Neonatal and Pediatric Respiratory Care	(2)
*	RSP	225	Respiratory Care Seminar	(3)
*	RSP	231	Clinical Practice III	(3)
*	RSP	232	Clinical Practice IV	(3)
6			unation Course Paguirementer	(20 gradita)
	HLT	110	Medical Terminology	(20 creans)
*	ENG	101	Composition I	(3)
*	BIO	185	Foundations of Anatomy and Physiology	(5)
*	BIO	274	Microbiology	(4)
s	elect o	one for	the speech requirement:	
	SPH	201	Interpersonal Communication	
			(recommended), or	
*	SPH	131	Fundamentals of Communication	(3)
s	elect o	one for	the elective requirement:	
	HLT	105	Phlebotomy	(3)
	FWS	237	Nutrition for Optimum Living	(3)
	PHL	153	Medical Ethics	(3)
	BIO	171	Biology of Human Disease	(3)
*	MGT	270	Principles of Management	(3)
	PSY	170	General Psychology	(3)
	PHL	256	Contemporary Moral Issues	(3)

*Course has a prerequisite—refer to course description section in this catalog.

Cooperative community colleges are Blackhawk Technical College, Kishwaukee College, Highland Community College, McHenry County College and Sauk Valley Community College.

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SURGICAL TECHNOLOGY

#5405

Certificate - 40 credits

Program contact: Division of Allied Health and Human Services, (815) 921-3200

Program overview

Surgical technologists prepare the operating room and equipment used for surgery, assist in preparing patients for surgery, are responsible for maintaining the sterile environment in the operating room, and assist in other aspects of the procedure. The program, featuring classroom, laboratory, and clinical experiences, prepares students to assume an important role with surgical teams at entry level.

Work and employment

Graduates are employed in hospital operating rooms, delivery rooms, ambulatory care areas, surgical centers, travel agencies, physician offices, dental offices, and central sterilizing departments. With additional specialized educational and training, graduates can become Surgical Assistants, Program Directors, Instructors, and Surgical/Medical Sales Representatives.

Professional credential and program accreditation Graduates are eligible to become Certified Surgical Technologists (CST). Students in their last semester of the program will sit for the National Certification Examination through the National Board of Surgical Technology and Surgical Assisting (INBSTSA) prior to graduation. The program is governed by the Association of Surgical Technology (AST) and is fully accredited by the Commission on Accreditation of Allied Health Programs (CAAHEP).

Admission to the program

Admission is selective and competitive. Prerequisite course work in chemistry, biology, and mathematics is required. For more information, call the Allied Health and Human Services division office at (815) 921-3200.

Admissions policies

Requirements for application and admission:

- 1. A graduate of a recognized or accredited secondary school at the time of enrollment or complete the GED as required by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).
- 2. Admission to Rock Valley College according to college policies governing full-time students.
- 3. Chemistry requirement: Two semesters of high school chemistry successfully completed within the past five years with a grade of "C" or better for both semesters or complete a college chemistry course (with a lab) with at least a minimum grade of "C."
- 4. Math requirement: Two semesters of high school algebra with a grade of "C" or better or have Math 092, Beginning Algebra, and earned at least a minimum grade of "C."

- 5. Grade Point Average: A 2.0 GPA in all course work completed for college credit.
- 6. Concurrent hospital clinical practice also necessitates that students meet the following requirements:
 - a. Be in good health as certified by a physician licensed to practice medicine in all its branches, and complete in full the medical examination and immunization form provided.
 - b. Possibly submit to further laboratory tests as requested.
- 7. Qualified applicants who are residents of Rock Valley College District 511 or who reside in a district that has a cooperative agreement with Rock Valley College will be admitted first. Out-of-district applicants will be admitted only if the surgical technology class has not been filled and all qualified in-district or cooperating community college applicants have been accepted.

Admissions procedures:

- 1. The following records must be sent directly to the Allied Health division office:
 - a. High school transcripts or GED scores.
 - b. Previous college transcripts.
- 2. Applicants are required to complete a separate application for admission to the Surgical Technology program, hereafter referred to as the surgical technology application.
- 3. The surgical technology application may be filed at any time and must be filed before April 15 prior to the fall term a student hopes to enter the program. Only completed applications are processed. Completed applications include:
 - a. Chemistry grade(s).
 - b. Algebra grade or score.
- 4. Students will be notified of their admission status prior to June 15.
- 5. Applicants not selected one year are individually responsible for reactivating and updating their application in subsequent years.
- 6. Contact the Division of Allied Health and Human Services at (815) 921-3200 for additional information on the program.

Application deadline: Students must be admitted to Rock Valley College and algebra and chemistry must be completed to be reviewed for admission to the program. Applications must be submitted prior to April 15.

Anatomy and Physiology and Medical Terminology must be completed before enrollment in the Surgical Technology program courses.

Criminal Background Check and Drug Testing Students will undergo a criminal background check and drug testing during the fall semester they begin the program. It is possible that a student's criminal background and/or a positive drug test will prevent participation in hospital clinical practice and program completion.

Standard for progression in the program

Students are required to earn at least a minimum grade of "C" in all Surgical Technology courses. Failure to do so will prevent a student from taking later courses in the program or graduating.

Surgical Technology Course Requirements: (26 credits)

Ŧ	SRG	101	Surgical Technology I Central Service	
		Princ	eiples and Practice	(4)
*	SRG	102	Surgical Technology II Principles and Pr	ractice (6)
*	SRG	103	Surgical Technology III	
		Princ	ciples and Practice Specialty	(5)
*	SRG	104	Surgical Technology IV	
		Princ	piples and Practice Specialty	(5)
*	SRG	105	Surgical Technology V	
		Inter	nship	(4)
*	SRG	106	Surgical Technology Seminar	(2)
C	Gener	al Ec	ducation Course Requirements:	(14 credits)
*	BIO	185	Foundations of Anatomy	
			and Physiology	(5)
*	BIO	274	Microbiology	(4)
*	ENG	101	Composition I	(3)
	HLT	110	Medical Terminology	(2)

Comparable BIO, ENG, and HLT courses may be taken at the cooperative community colleges.

*Course has a prerequisite—refer to course description section in this catalog.

Cooperative community colleges are: Highland Community College, Kishwaukee College, and Sauk Valley College.

Apprenticeship programs

An apprenticeship is a training program that combines paid, on-the-job experience with classroom instruction. Apprenticeship students must be 18 years or older and have a high school diploma or equivalent before being accepted into most programs.

As an apprentice, students will be supervised on-the-job by skilled journeypersons. They will also attend classes every week during the fall and spring semesters. At RVC, students can choose from among four apprenticeship certificate programs:

- –Ironworkers
- -Sheet Metal Workers
- -Tool & Die/Precision Machinists

In each program, RVC works in cooperation with a joint apprenticeship training committee that determines admission to that program. For more information, contact the Division of Technical Programs at (815) 921-3003.

ELECTRICIAN APPRENTICESHIP #9900

Please see page 59 for program requirements.

IRONWORKERS APPRENTICESHIP (THREE YEARS) #9915

Degree conferred: Apprenticeship – 18 credits

Those in the ironworking industry become adept at all welding and burning processes, and fabricate ornamental ironwork and wall systems. Using blueprints, they are able to develop products that are both practical and ornamental.

APT	150	Introduction to Apprenticeship	(3)
* APT	151	Reinforcing/Blueprints	(3)
* APT	152	Ornamental Ironwork and Fabrication	(3)
* APT	153	Ornamental Wall Systems	(3)
* APT	250	Welding and Burning I	(3)
* APT	251	Welding and Burning II	(3)

*Course has a prerequisite—refer to course description section in this catalog.

SHEET METAL APPRENTICESHIP(FIVE YEARS)#9918

Degree conferred: Apprenticeship – 40 credits

Apprentices in this program are trained to assemble, install, and repair sheet metal products. They work on air conditioning, heating, and ventilation systems. Those trained in this field learn to read job orders and blueprints. From that, they are able to select the correct metal and shape it over the proper form using solder and welding techniques.

APT	180	Introduction to Apprenticeship	(4)
*APT	181	Mathematics and Processes I	(4)
*APT	182	Mathematics and Processes II	(4)
*APT	183	Mathematics and Processes III	(4)
*APT	280	Blueprints and Patterns I	(4)
*APT	281	Blueprints and Patterns II	(4)
*APT	282	Advanced Systems I	(4)
*APT	283	Advanced Systems II	(4)
*APT	284	Advanced Studies I	(4)
*APT	285	Advanced Studies II	(4)

*Course has a prerequisite—refer to course description section in this catalog.

TOOL & DIE/PRECISION MACHINISTCERTIFICATE (FOUR YEARS)#9919

Degree conferred: Certificate - 28 credits

The tool and die maker/precision machinist makes the devices used by machinists for mass-produced parts. Tool and die makers are among the most skilled of all machinery workers. Apprentices learn to make the gauges and measuring devices in manufacturing precision metal parts. They are also taught to construct metal forms used to shape metal stamping and forging operations.

Year One

APT	190	Mathematics for Machine	
		Technology	(3 credit hours)
*APT	194	Blueprint Interpretation	(3 credit hours)
Year	Two		
*APT	289	Metal Cutting Applications	(3 credit hours)
MET	106	Metrology	(3 credit hours)
MET	108	Computer Drafting using	
		AutoCAD	(3 credit hours)
Year	Three)	
MET	120	CNC Machine	
		Setup/Operation	(2 credit hours)
MET	121	Fundamentals of CNC	
		Programming (Manual)	(2 credit hours)
MET	240	CNC Programming II	(3 credit hours)
Year	Four		
MET	105	Materials and Processes	(3 credit hours)
MET	133	Graphics, Solidworks, [™]	
		and CAD I	(3 credit hours)
*.0	,		

*Course has a prerequisite—refer to course description section in this catalog.

APPRENTICESHIP ORGANIZATIONS

Electricians

 Rockford Area Electricians Joint Apprenticeship Committee
 619 S. Rock Dr.
 Rockford, IL 61102
 (815) 969-8484
 Attn: Todd Kindred

Ironworkers

 Rockford Area Ironworkers Joint Apprenticeship Committee 5640 Sockness Dr. Rockford, IL 61109 (815) 873-9180

Sheet Metal

 Rockford Area Sheet Metal Joint Apprenticeship Committee 3316 Publishers Dr. Rockford, IL 61109 (815) 874-6641 Fax: (815) 874-5182 Attn: Brad Glidden

Tool and Die/Precision Machinist

 Rockford Tooling and Machining Association P.O. Box 5029 Rockford, IL 61125 (815) 227-4125 Fax: (815) 227-4174 Attn: Ken Barton

For further information contact:

Ms. Ronda Kliman, Area Representative U.S. Department of Labor Employment and Training Administration Bureau of Apprenticeship and Training 308 W. State St., Suite 403 Rockford, IL 61101 (815) 987-4253 Fax: (815) 987-4214

Rock Valley College Ron Schulz Associate Dean of Technical Programs 4151 Samuelson Rd. Rockford, IL 61109 (815) 921-3003 Fax: (815) 921-3029

WELDING

#8218

Certificate

Program contact: Division of Technical Programs, (815) 921-3000

Program overview

Graduates are adept in the various welding types, including gas, shielded metal arc (STICK), metal inert gas (MIG), flux core, and tungsten inert gas (TIG) welding. Welding certification can be acquired in one or more welding processes.

Work and employment

In today's metalworking industry, welding is rapidly becoming the most commonly used method of joining metals. Opportunities exist in the steel fabrication, plumbing and pipefitting, construction, automotive, nuclear, and sheet metal industries, as well as in facilities maintenance.

*Students are required to furnish their own personal protective equipment.

Welding Certificate Requirements

Weldi	ng/8218	(24 credits)
WLD	150 Blueprint Reading for Welders	(3)
WLD	151 Fundamentals of Welding Theory	(3)
WLD	152 Arithmetic for Welders	(3)
*WLD	153 Arc Welding: Flat	(3)
*WLD	154 Arc Welding: Vertical	(3)
*WLD	155 Arc Welding: Horizontal	(3)
*WLD	156 Arc Welding: Overhead	(3)
Select	one from the following:	
*WLD	157 M.I.G. Welding	(3)
*WLD	158 T.I.G. Welding	(3)
*WLD	159 Arc Welding: Bellhole/Pipe	(3)
*WLD	161 Arc Welding: Arkansas/Pipe	(3)
*WLD	175 Certification Qualification	(3)
*WLD	181 Special Topics Welding	(3)
*WLD	182 Internship in Welding Technology	(3)
*WLD	180 Independent Study in Welding	(5)

*Course has a prerequisite—refer to course description section in this catalog.

COOPERATIVE EDUCATIONAL AGREEMENTS

COOPERATIVE EDUCATIONAL AGREEMENTS

Rock Valley College has career education cooperative educational agreements with several Illinois community colleges so that students may enroll in occupational degree and/or certificate programs not available at RVC. Students take all specialized courses at the cooperating college. Related technical and general education courses required by the cooperative programs may be taken at Rock Valley College or the community colleges offering the program. The cooperating college will issue all degrees or certificates for successful completion of the individual program. The student pays the in-district tuition of the offering institution. See "Cooperative Agreements and Tuition Chargebacks" in the Tuition and Fees section.

For further information about the program, call the Student Development Office at (815) 921-4281. Students who wish to obtain application materials, please call ahead and schedule an appointment.

Rock Valley College has cooperative educational agreements with the following two Wisconsin institutions: Blackhawk Technical College and Gateway Technical College.

Rock Valley College also participates in "Comprehensive Agreement Regarding the Expansion of Educational Resources" (C.A.R.E.E.R.). This cooperative agreement includes the following Illinois institutions:

Black Hawk College Carl Sandburg College Danville Community College Elgin Community College Heartland Community College* Highland Community College Illinois Central College Illinois Valley Community College John Wood Community College Kankakee Community College Kankakee Community College Kishwaukee Community College* Lake Land College Lewis and Clark Community Lincoln Land Community College McHenry County College* Morton College Prairie State College Richland Community College Sauk Valley Community College South Suburban College South Suburban College Waubonsee Community College

Rock Valley College also has individual cooperative agreements with the following Illinois institutions that are not included in C.A.R.E.E.R.: Harper College, Oakton Community College, and Parkland College. *Popular college contacts for cooperative programs are as follows (please contact Student Development Office for additional information):

Blackhawk Technical College

6064 Prairie Rd., P.O. Box 5009 Janesville, WI 53547 (608) 758-6900

- Culinary Arts (A.A.S.)
- Dental Assistant (Diploma)
- Electric Power Distribution (Diploma)
- Electromechanical Technician (A.A.S.)
- Food Service Aide (Certificate)
- Landscape and Turf Services (Diploma)
- Machine Tool Operation (Diploma)
- Medical Assistant (Diploma)
- Physical Therapist Assistant (A.A.S.)
- Radiography (A.A.S.)
- Sonography

Elgin Community College

1700 Spartan Dr. Elgin, IL 60123-7193 (847) 697-1000

Gateway Technical College

3520 30th Ave. Kenosha, WI 53144-1690 (262) 564-3300

- Aeronautics Pilot Training (A.A.S.)
- Air Conditioning Heating and Refrigeration Technology (A.A.S.)
- Culinary Arts (A.A.S.)
- Graphic Technologies Designer (A.A.S.)
- Health Information Technology (A.A.S.)
- Horticulture (A.A.S.)
- Interior Design (A.A.S.)
- Interpreter Technician (A.A.S.)
- Judicial Reporting (A.A.S)
- Physical Therapist Assistant (A.A.S.)
- Technical Communications (A.A.S.)

Harper College

1200 West Algonquin Rd.Palatine, IL 60067-7398(847) 925-6000Cardiac Technology (A.A.S)

- Cardiographic Technology Certificate
- Culinary Arts: Culinary Arts Certificate
- Cuintary Arts. Cuintary Arts Certificate
- Bread and Pastry Arts Certificate
- Diagnostic Cardiac Sonography Certificate
- Diagnostic Medical Sonography (A.A.S and Certificate)
- Paralegal Studies (A.A.S. and Certificate)
- Vascular Technologist Certificate

Highland Community College

2998 West Pearl City Rd. Freeport, IL 61032 (815) 235-6121

COOPERATIVE EDUCATIONAL AGREEMENTS

Illinois Valley Community College

815 North Orlando Smith Ave. Oglesby, IL 61348 (815) 224-2720

Kishwaukee College

21193 Malta Rd. Malta, IL 60150-9699 (815) 825-2086

McHenry County College

8900 U.S. Highway 14 Crystal Lake, IL 60012-2738 (815) 455-3700

Oakton Community College

1600 East Golf Rd. Des Plaines, IL 60016 (847) 635-1600

 Facilities Management and Engineering (A.A.S. and Certificates)

- Health Information Technology (A.A.S. and Certificates)
- Medical Laboratory Technology (A.A.S.)
- Physical Therapist Assistant (A.A.S.)

Parkland College

2400 West Bradley Ave. Champaign, IL 61821-1899 (217) 351-2200

- Communication Technology (A.A.S.)
- Radio-TV/Video (A.A.S.)

Sauk Valley Community College

173 IL Rt. 2 Dixon, IL 61021 (815) 288-5511

Waubonese Community College

Route 47 at Waubonsee Drive Sugar Grove, IL 60554-9454 (630) 466-7900



GENERAL STUDIES DEGREE

REQUIREMENTS FOR THE ASSOCIATE IN GENERAL STUDIES DEGREE

#0100

The program leading to the General Studies degree is neither primarily baccalaureate (transfer) oriented nor primarily occupational oriented. It is an individualized program, permitting flexibility in the selection of courses. Students will qualify for the Associate in General Studies degree when they have satisfied the following requirements:

- 1. Enter into a contract with a counselor establishing an individualized program. This contract will include the following points agreed upon by the student and their counselor and approved by the Dean.
 - a. A general education component which must include:
 - ENG 101 and SPH 131.
 - A mathematics course numbered 100 or above.
 - A social science course numbered 100 or above.
 - A humanities course numbered 100 or above (as defined in the A.A. degree humanities requirement).
 - A science course numbered 100 or above.
 - Career requirement (1-3 semester credits). Students must complete one course from the following electives: STU 101 (Career Planning), BUS 101 (Introduction to Business), BUS 105 (Consumer Economics and Personal Finance), CIS 102 (Introduction to Computers and Information Systems), CIS 202 (Introduction to Business Computer Systems).
 - b. A minimum of 15 semester credits in one of the following areas of concentration:
 - Business All courses in the Business Division.
 - Composition and Literature All courses numbered 100 to 299.
 - Computers and Information Systems All courses.
 - Humanities All courses in art, music, literature, philosophy, THE 133, HUM 111, HUM 112, HUM 114, HUM 115, and SPH 202.
 - Life/Physical Sciences All courses in the Life and Physical Sciences divisions.
 - Mathematics All mathematics courses numbered 100 to 299.
 - Modern Languages All modern language courses.
 - Physical Education All 200 level courses (FWS).
 - Health and Service Careers All courses in the Allied Health and Human Services Division.
 - Social Sciences All courses in the Social Sciences and Humanities Division.
 - Technology All courses in the Technology Division.
 - Technical All courses in the Technical Programs Division.

- 2. Complete all provisions of the contract. Once the agreement has been defined, it cannot be changed without the approval of a counselor and the Dean of the College.
- 3. Earn a minimum of 12 semester credits at Rock Valley College in fall and spring semesters or summer sessions following the term in which the student entered into the contract.
- 4. Earn a minimum of 64 semester credits in courses numbered 100 through 299 (excluding certificate-level courses so indicated under "Course Descriptions") with a grade point average of at least 2.0.
- 5. Successful completion of 20 semester credits at Rock Valley College.

Students may earn a maximum of three semester credits in physical education activity classes (FWS 100-199) toward the Associate in General Studies Degree.



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All courses on the following pages were approved by the Illinois Community College Board.

Each course title is followed by the IAI Number, followed by the number that indicates whether the course is Baccalaureate or Transfer (1.1), Career-Technical (1.2) or Developmental (1.4).

• Following the description of the course is the number of semester hours of credit, followed by the number of lecture hours per week and the number of lab hours per week.

• If a course meets for a shorter or longer period than a semester, the lecture and laboratory hours are adjusted so that the total number of hours will be the same as the total for the semester.

• These classifications are according to the master course file of the Illinois Community College Board.

• Only degree-level courses numbered from 100 through 299 will meet degree requirements. Credit earned in courses numbered below 100 (Type 1.6) and above 299, and in select certificate-level courses, will not count toward any degree.

• Courses on the following pages are listed in alphabetical order by subject areas. Listed below are the instructional divisions and the subject areas offered by those divisions.

Academic Affairs

Academic	Course	Division
Discipline	Prefix	Phone Number
Accounting	ATG	.(815) 921-3101
Anthropology	ANP	.(815) 921-3317
Apprenticeships	APT	.(815) 921-3101
Art	ART	.(815) 921-3317
Astronomy	AST	.(815) 921-3471
Atmospheric Science	ATS	.(815) 921-3471
Automotive	ATM	.(815) 921-3000
Aviation	AVM	.(815) 921-3020
Biology	BIO	.(815) 921-3471
Building Construction	BUT	.(815) 921-3101
Business	BUS	.(815) 921-3101
Child Care & Development	CUD	(815) 921 - 3471
Composition & Literature		.(015) 921-3330
Computera ^e	ENG/LII	.(815) 921-3338
Lafarra tion Contanta GIG	DOT WED	(015) 001 0101
Information Systems	, PUT, WEB	(815) 921-3101 (815) 021 2200
Dentel Hygione	DNT	(815) 921 - 3200
Dental Hygiene	ECO	$(\delta_{15}) \ 921 - 3230$
Economics	ECU EDU	$(\delta_{15}) \ 921 - 3317$
Education Approximationship	EDU	.(815) 921-3338
Electrician Apprenticeship	ECD	(815) 921 - 3101 (815) 021 2101
	EGR	(010) 921-0101 (015) 001 0000
Fitness Wellpage & Sport	EWC	(015) 921 - 3200 (015) 021 2001
Coography	F W.S CEO	(815) 921-3001 (815) 021 2217
	CEI	(815) 921-3317 (815) 021 2471
Graphic Arts	GAT	(815) 921-3471 (815) 021 2101
Hoalth Courses	HIT	(815) 921-9101 (815) 921 3200
History	HST	(815) 921-3200
Human Services	HSR	(815) 921-3200
Humanities	HIM	(815) 921-3200 (815) 921-3317
Journalism	IRN	(815) 921-3338
Management	MGT	(815) 921-3000
Manufacturing		.(010) 521 5101
Engineering Technology	MET	(815) 921-3101
Marketing	MKT	(815) 921-3101
Marketing	COM	(815) 921-3317
Mathematics	MTH	(815) 921-3471
Modern Language FRN	L GRM. SPN	(815) 921-3317
Music	MUS	(815) 921-3317
Nursing Aide	NAD	(815) 921-3261
Nursing Programs		.(815) 921-3261
Office Programs		.(815) 921-3101
Personal Computer		.()
Technical Specialist	PCT	.(815) 921-3101
Philosophy	. PHL	.(815) 921-3317
Physical Geography		.(815) 921-3471
Physics	PHY	.(815) 921-3371
Political Science	PSC	.(815) 921-3317
Practical Nursing	PNU	.(815) 921-3261
Psychology		.(815) 921-3317
Respiratory Care		.(815) 921-3200
Sociology	SOC	.(815) 921-3317
Speech	SPH	.(815) 921-3338
Surgical Technology	SRG	.(815) 921-3200
Theater		.(815) 921-2151
Web Information Tech.	WEB	.(815) 921-3101
Welding		.(815) 921-3001

ACCOUNTING

Division of Business/Computers and Information Systems (815) 921-3101

ATG

1.1

11

ATG 106 -Introduction to Accounting Debits and Credits IAI: None 11

 IAI: None
 1.1

 Introduction to Accounting Debits and
 Credit teaches the theory of double entry

 accounting, which utilizes both a debit and
 credit part for every business transaction.

 Recording transactions in the general journal, posting transactions to the general
 ledger, and the preparing of the work

 sheet and preparation of the income statement, capital statement, and balance sheet
 will be covered.

 Prerequisite: None
 Credit: 1 semester hour

 Lecture: 1
 Lab: 0

ATG 107 -Introduction to Accounting Special Journals IAI: None

Introduction to Accounting Special Journals is a continuation of Accounting 106, Debits and Credits. The course demonstrates the use of the special journals to save time and effort by grouping similar transactions and by division of labor. Special journals studied include the Combined Journal, Sales Journal, Purchases Journal, Cash Receipts Journal, Purchases Journal, Cash Receipts Journal, and Cash Payments Journal. Posting procedures and special ledgers will also be covered. *Prerequisite: ATG 106 Credit: 1 semester hour Lecture: 1 Lab: 0*

ATG 110 -Financial Accounting IAI: BUS 903

Financial Accounting presents accounting as an information system that produces summary financial statements, primarily for users external to a business or other enterprise. Students study the forms of business organization and the common transactions entered into by businesses. The emphasis is on understanding and applying basic accounting principles and other concepts that guide the reporting of the effect of transactions and other economic events on the financial condition and operating results of a business. How to analyze and interpret historical financial statements, as well, and the limitations of using these in making forward-looking business decisions is included. The primary content emphasis will be accounting for current assets and liabilities, long-term assets and liabilities, stockholder equity, corporations' cash flow statements, and financial statement analyses. Prerequisite: ATG 106 and ATG 107 with grade "C" or higher; or, completion of high school accounting with grade "C" or higher. Or consent of instructor. Credit: 4 semester hours Lecture: 4 Lab: 0

ATG 111 -Managerial Accounting IAI: BUS 904

1.1 Managerial Accounting presents accounting as a system of producing information for internal use in managing business. The course emphasizes the identification, accumulation, and interpretation of information for planning, controlling, and evaluating the performance of the separate components of a business. Included is the identification and measurement of the costs of producing goods or services and how to analyze and control these costs. Decision models commonly used in making specific short- and long-term business decisions also are included. Prerequisite: ATG 110 Credit: 4 semester hours Lecture: 4 Lab. 0

ATG 120 -Microcomputer Spreadsheet Application in Accounting IAI: None

IAI: None1.2Microcomputer Spreadsheet Application in
Accounting concentrates on the utilization
of a computer spreadsheet software pro-
gram to solve accounting problems and to
report accounting information. Current
software available for the IBM-compatible
microcomputer will be used.Prerequisite: ATG 110; or ATG 106 and
ATG 107
Credit: 2 semester hours
Lecture: 1Lab: 2

ATG 123 – General Ledger Software Applications in Accounting IAI: None

General Ledger Software Applications in Accounting concentrates on the utilization of a computer general ledger software program to solve accounting problems, and to report accounting information. The payroll function is introduced including current regulations. Current commercial software available for the IBM-compatible micro computer will be used. *Prerequisite: ATG 110, and CIS 102 or CIS 202. Credit: 2 semester hours Lecture: 1 Lab: 2*

Lecture: 1

ATG 210 -Cost Accounting

IAI: None 1.1 Cost Accounting studies the nature of costs and relevant accounting data for purposes of improving decision-making. The determination of product costs, budgets and standards, and capital budgeting are among the topics studied. This course is a core curriculum requirement for an A.A.S. degree in accounting. *Prerequisite: ATG 111 with a grade of* "C" or hiaher.

Credit: 4 semester hours

Lecture: 4 Lab: 0

ATG 215 -Intermediate Accounting I IAI: None

1.1 Intermediate Accounting I is an in-depth analysis of accounting principles related to the preparation of general-purpose financial statements for external users of accounting information. The efforts of accounting organizations such as the FASB (Financial Accounting Standards Board), the APB (Accounting Principles Board), and the AICPA (American Institute of Certified Public Accountants) are reflected in the material. Issues covered include those related to the Balance Sheet Statement of Retained Earnings, Income Statement and Statement of Cash Flows. Representative areas of accounting include, but are not limited to, cash. receivables, inventories, and property, plant, and equipment. This course is a core course requirement for an A.A.S. degree in accounting. (Offered fall semester only) Prerequisite: ATG 111 with a grade of "C" or higher.

Credit: 4 semester hours Lecture: 4

ATG 216 -

12

Intermediate Accounting II IAI: None

11 Intermediate Accounting is a continuation of the in-depth analysis of accounting principles related to the preparation of general-purpose financial statements for external users of accounting information, which started in ATG-215. Representative areas of accounting include, but are not limited to, liabilities, including long-term debt, stockholders equity, earnings per share, revenue recognition, accounting for income taxes, accounting for leases, accounting for pensions, and the statement of cash flows. This is a requirement of financial accounting option of the A.A.S. degree in accounting. (Offered in spring semester) Prerequisite: ATG 215 Credit: 3 semester hours Lecture: 3 Lab: 0

ATG 218 -

Lecture: 4

Federal Income Tax IAI: None

1.2

Lab: 0

Federal Income Tax is a course where emphasis is placed on federal income taxes for the individual. The course covers both the practical preparation of income tax returns and the theoretical understanding of the law. Subjects covered include taxation of non-business individuals, proprietary business operations, and gains/losses from the sale of various types of property. The federal income taxation of partnerships and corporations will also be introduced. This course is a core curriculum requirement for an A.A.S. degree in accounting. Prerequisite: ATG 110 or consent of instructor. Credit: 4 semester hours

Lab: 0

ATG 220 -**Fraud Detection and Deterrence** IAI: None 12

Fraud examination will cover the principle and methodology of fraud detection and deterrence. The course includes such topics as skimming, cash larceny, check tampering, register disbursement schemes. billing schemes, payroll and expense reimbursement schemes, non-cash misappropriations, corruption, accounting principles and fraud, fraudulent financial statements, and interviewing witnesses. Prerequisite: ATG 110 Credit: 3 semester hours Lecture: 3 Lab: 0

ATG 291 -Internship Accounting

IAI: None

1.2 Internship Accounting enables the student to work part-time as an accounting intern in a business organization, educational institution, or government agency. This will be done under the supervision of a college accounting faculty member. It is the student's responsibility to secure this parttime or full-time position, and approval must be obtained from the college faculty member. The number of work hours is variable

Prerequisite: 30 semester hours of credit in the accounting curriculum. Credit: 1-6 semester hours Lecture: 0 Lab: 5-30

ATG 295 -

Independent Study in Accounting IAI: None

Independent Study in Accounting enables the student to conduct an individual project based on a special area of interest in accounting. Course requirements are based on a special area of interest in accounting. Course requirements are based on the nature of the project undertaken. Prerequisite: None

Credit: 1-6 semester hours Lecture: 1-6 Lab: 0

ATG 298 -**Accounting Capstone** IAI. None

1.2The Accounting Capstone course will reinforce concepts learned throughout the accounting program by applying accounting knowledge and skills to problems and cases. Students will have the option to take the national certification exam and obtain their Certified Bookkeeper Certificate upon completion of the course. Prerequisite: This course is to be taken the final semester prior to graduation. At least 18 credit hours of ATG courses must be completed with a "C" or higher. Credit: 4 semester hours Lecture: 4 Lab: 0

ANTHROPOLOGY

ANP

Lab: 0

Liberal Arts Division (815) 921-3338

ANP 102 -**Introduction to Physical** Anthropology and Archaeology

IAI: S1 902 This course is an introduction to the principles of evolution and the origin of people and their culture. It includes the study of people as a member of the order of primates, fossil people, prehistoric archaeology, and the beginnings of early civilizations, race, and racism. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

ANP 103 -Introduction to Cultural Anthropology

IAI: S1 901N 1.1 This course is a basic survey of the principles of cultural anthropology including the concept of culture and its various aspects. Language, economics, kinship, religion, and art are included. Some attention is also given to distinctive theoretical approaches and to problems of culture change. Prerequisite: None

Credit: 3 semester hours Lecture: 3

APPRENTICESHIP -APT **IRONWORKERS**

Division of Technical Programs (815) 921-3003

Rock Valley College, in cooperation with the Ironworkers Joint Apprenticeship Committee, sponsors related apprenticeship classroom training. Admission to the Ironworkers Apprenticeship program is determined by the joint apprenticeship committee. Students who wish to be considered for an apprenticeship should apply to the Ironworkers organization listed on page 76.

APT 150 -

Introduction to Apprenticeship IAI: None

1.2 The Introduction to Apprenticeship course is an introduction to apprenticeship including transportation, reporting to work, proper clothing. Prerequisite: Minimum requirements as per apprenticeship standard; Approved by the U.S. Department of Labor, Bureau of Apprenticeship and Training. Credit: 3 semester hours Lecture: 2 Lab: 2.5

APT 151 -**Reinforcing and Blueprints** IAI: None

1.2 The Reinforcing/Blueprints course is a study of concrete reinforcing steel, including the tools, manufacture, bar use and identification, ties and erection methods. fabrication, handling and storage, bar slicing and welding. Reinforcing blueprints covering all types of structures will be studied in detail. Also includes a study of the fundamentals of blueprint reading, including: types, lines, symbols, abbreviations, detailing, elevations, and standard gauging as it applies to the ironworking trade

Prerequisite: APT 150 Credit: 3 semester hours Lecture: 2 Lab: 2.5

APT 152 -**Ornamental Ironwork and** Fabrication

IAI: None 12 The Ornamental Ironwork and Fabrication course is a review and continuation of APT 151 of the fundamentals of blueprint reading, layout methods, tools, mensuration, properties of structural steel, fitting up and welding, and specific fabrication of steel stairs and handrails. Prerequisite: APT 151 Credit: 3 semester hours Lab: 2.5 Lecture: 2

APT 153 -**Ornamental Wall Systems**

12 IAI: None The Ornamental Wall Systems course will cover the subjects of hand tools, power tools, and anchors and fasteners used in the ironworking industry, the operation of layout instruments, the subject of curtain walls and window walls as well as the applying of sealants, glazing systems, and testing window and curtain wall systems. Prerequisite: APT 152 Credit: 3 semester hours Lecture: 2 Lab: 2.5

APT 250 -

Welding and Burning I IAI: None

1.2

The Welding and Burning I course covers welding methods and procedures as they apply to the ironworking trade. Content will include electrode and metal identification, methods and procedures, machine setup and controls, and weld testing. Prerequisite: APT 153 Credit: 3 semester hours Lecture: 2 Lab: 3.5

APT 251 -Welding and Burning II

IAI: None 12 The Welding and Burning II course is a review and continuation of methods and procedures as they apply to the ironworking trade. Content will include electrode and metal identification, methods and procedures, machine setup and controls and weld testing. Prerequisite: APT 250 Credit: 3 semester hours Lecture: 1 Lab: 4

12

1.2

ΑΡΤ

APPRENTICESHIP -**SHEET METAL** APT WORKERS

Division of Technical Programs (815) 921-3003

Rock Valley College, in cooperation with the Sheet Metal Workers Joint Apprenticeship Committee, sponsors related apprenticeship classroom training. Admission to the Sheet Metal Workers Apprenticeship program is determined by the joint apprenticeship committee. Students who wish to be considered for an apprenticeship should apply to the Sheet Metal Workers organization listed on page 76.

APT 180 -Introduction to Apprenticeship

1.2 IAI: None The Introduction to Apprenticeship course covers the historical development of apprenticeship, the local program, and the technology of the sheet metal industry. There also will be in-depth study of layout and pattern development. Prerequisite: None Credit: 4 semester hours Lecture: 3 Lab: 3.5

APT 181 -**Mathematics and Processes I** IAI: None

1.2 The Mathematics and Processes I course is the study of mathematics, materials, and various field operations. Safety on the job will also be covered. Drafting techniques will be introduced. Prerequisite: APT 180 Credit: 4 semester hours Lecture: 3 Lab: 3.5

APT 182 -Mathematics and Processes II IAI: None 1.2The Mathematics and Processes II course covers mathematics, materials, layout and pattern

development, field installation and drafting. Prerequisite: APT 181 Credit: 4 semester hours Lab: 3.5 Lecture: 3

APT 183 -

Mathematics and Processes III 12 IAI: None

The Mathematics and Processes III course covers mathematics for sheet metal workers. as well as architectural sheet metal, welding, residential heating, and air conditioning. Prerequisite: APT 182 Credit: 4 semester hours Lab: 3.5 Lecture: 3

APT 280 -**Blueprints and Patterns I** IAI: None

1.2 The Blueprints and Patterns I course is a study of layout and pattern development along with materials and mathematics. Shop work and service functions are also included in this course. Prerequisite: APT 183 Credit: 4 semester hours Lab: 3.5 Lecture: 3

APT 281 -**Blueprints and Patterns II** IAI · None

The Blueprints and Patterns II course studies blueprint reading, blowpipe, safety, plastics and fiberglass and food and beverage dispensing equipment. Prerequisite: APT 280 Credit: 4 semester hours Lecture: 3 Lab: 3.5

APT 282 -**Advanced Systems I** IAI: None

1.2The Advanced Systems I course is a study of the layout and pattern development, shop work, and field installation of advanced systems. Advanced welding techniques will also be studied. Prerequisite: APT 281 Credit: 4 semester hours Lab: 3.5 Lecture: 3

APT 283 -**Advanced Systems II**

12 IAI · None The Advanced Systems II course studies residential heating and air conditioning, food service and beverage dispensing equipment, sign work, and supervision. Architectural sheet metal and advanced blueprint reading are also covered. Prerequisite: APT 282 Credit: 4 semester hours Lecture: 3 Lab: 3.5

APT 284 -**Advanced Studies I** IAI: None

The Advanced Studies I course covers advanced welding and cutting. The course includes SMAW, MIG, and TIG welding, plus gas cutting and welding safety. The course also covers an in-depth study of service techniques Prerequisite: APT 283 Credit: 4 semester hours Lecture: 3 Lab: 3.5

APT 285 -**Advanced Studies II** IAI: None

1.2 The Advanced Studies II course covers the procedures for air balancing (T.B.A.), service work (H.V.A.C.) and hoisting and rigging, plus the use of various air balancing instruments. The writing of project reports for engineers on the job will also be covered. The reports include information on duct traverse, air flow, air quantities and fan performance. Prerequisite: APT 284 Credit: 4 semester hours Lecture: 3 Lab: 3.5

APPRENTICESHIP -**TOOL AND DIE/PRECISION MACHINIST**

Division of Technical Programs 815) 921-3003

Rock Valley College, in cooperation with the Rockford Tooling and Machining Association, sponsors related apprenticeship classroom training. Admission to the Tool and Die/Precision Machinist Apprenticeship program is determined by the Rockford Tooling and Machining Association. Students who wish to be considered for an apprenticeship should apply to the Rockford Tooling and Machining Association organization listed on page 76. Apprenticeship training is available in the specific categories of die maker, tool maker, mold maker, header die maker, precision machinist, and machine repair.

APT 190 -**Mathematics for Machine Technology I**

1.2 IAI: None The Mathematics for Machine Technology I course covers whole numbers, fractions, decimals, fractions, powers and roots, and percents. English and metric units of measure are used with precision measuring equipment, and formulas and equations with metalworking related subjects. Related metalworking subjects are also covered. Prerequisite: None Credit: 3 semester hours Lecture: 2 Lab: 2

APT 194 -**Blueprint Interpretation**

1.2 IAI: None The Blueprint Interpretation course will teach the student to interpret various types of three-view drawings, how to read tolerance information, and how to interpret dual system dimensioning and tolerances. Includes the metric system of dimensioning and ISO symbols which includes a comprehensive study of the application of geometric dimensioning and tolerancing techniques. This will use the ANSI/ASME Y10.5-M standards. Prerequisite: APT 190 Credit: 3 semester hours Lecture: 2 Lab: 2

APT 289 -

Metal Cutting Applications

IAI: None 1.2 The Metal Cutting Applications course will teach students metal cutting applications with various types of cutting tools. Topics covered will be materials, machinability of materials, tool materials, turning, boring, milling, grooving, threading and drilling. Students will learn how to select proper tooling based on material specifications and blueprint specifications. Prerequisite: APT 194 Credit: 3 semester hours Lecture: 2

87 Lab: 2

APT 290 -Tooling Processes I IAI: None

IAI: None1.2The Tooling Processes I course will
emphasize die-making principles, life and
construction; punching pilots, strippers
and stock guides; shedders and knockouts.
Also covered are nest-gages, punches, die
stops and die sets; jig and fixture making
and geometric tolerancing.
Prerequisite: APT 194 and QLT 106
Credit: 3 semester hours
Lecture: 2Lab: 2

APT 291 -Tooling Processes II

IAI: None1.2The Tooling Processes II course coverscutting material, lathe groups, milling,shaping, grinding, drilling, testing, andautomation.Prerequisite: APT 290Credit: 3 semester hoursLecture: 2Lab: 2

APPRENTICESHIP -ELECTRICIANS ELC

Division of Technical Programs (815) 921-3003

Rock Valley College, in cooperation with the Electricians Joint Apprenticeship Committee, sponsors related apprenticeship classroom training. Admission to the Electricians Apprenticeship program is determined by the joint apprenticeship committee. Students who wish to be considered for an apprenticeship should apply to the Electricians organization listed on page 76.

ELC 120 -Introduction to Apprenticeship IAI: None 1.2

The Introduction to Apprenticeship class includes a historical study of apprenticeship, local apprenticeship, the electrical industry, and its future. Students will study mathematics, safety and job information on tools, materials, circuits, and good housekeeping. *Prerequisite: None Credit: 4 semester hours Lecture: 3 Lab: 2*

ELC 121 -Electrical Theory and Code IAI: None

The Electrical Theory and Code course includes electrical theory in structure of matter, Ohm's law, circuits, resistance, magnetism, AC and DC, and circuit calculations. The electrical code is introduced, with emphasis on definitions, wiring methods, grounding and over-current protection. Blueprint reading is also covered. *Prerequisite: ELC 120 Credit: 4 semester hours Lecture: 3 Lab: 2*

ELC 122 -Lighting and Transformers IAI: None

IAI: None1.2IAI: None1.2The Lighting and Transformers course cov-
ers general lighting, safety, installation
requirements and code studies, incandes-
cent lamps, fluorescent lamps and ballasts,
and circuit calculation. Students learn
inductance to better understand trans-
formers and motors. Transformer princi-
ples are covered in addition to types, sin-
gle-phase, and three-phase connections.
Prerequisite: ELC 121
Credit: 4 semester hours
Lecture: 3Lab: 2

ELC 123 -

Motors and Wiring Systems IAI: None

The Motors and Wiring Systems course emphasizes the principles of AC motors. Types of AC motors taught are split-phase, capacitor, repulsion, shadepole, universal, and three-phase motors. Wiring systems of less than 400 volts, 480/277 volts, threephase delta, blueprint reading, and wiring systems for distribution are also covered. *Prerequisite: ELC 122 Credit: 4 semester hours Lecture: 3 Lab: 2*

ELC 243 -Alternating Current

IAI: None1.2The Alternating Current course is a review
of alternating current with emphasis on
inductance, grounding studies, inductance
reactance, capacitive reactance and math-
ematics for AC circuits. Included also are
AC series and parallel circuits, plus power
factor correction and problems.

Prerequisite: ELC 123

Credit: 4 semester hours

Lecture: 3Lab: 2

ELC 244 -Electronics Circuitry IAI: None

IAI: None1.2The Electronics Circuitry course focuses
on basic electronics concepts, basic recti-
fiers, filter circuits and power supplies,
and amplifier circuits. Also covered are
audio amplifiers, time delays and relays,
and controls.Prerequisite: ELC 243
Credit: 4 semester hours
Lecture: 3Lab: 2

ELC 245 -Motor Control

1.2

IAI: None1.2The Motor Control course includes starting
protective controls, starters and relays,
blueprint reading, job and reverse circuits,
sequence control circuits, circuit analysis,
and trouble shooting.Prerequisite: ELC 244
Credit: 4 semester hours
Lecture: 3Lab: 2

ELC 246 -Power Controls

IAI: None1.2The Power Controls course includes power
controls, control of DC motors, process
control, air conditioning and refrigeration,
welding control, instrumentation, static
control basic concept and logic circuits,
and static control application of elements.
Also included is a review of code and static
control circuit analysis.
Prerequisite: ELC 245
Credit: 4 semester hours
Lecture: 3Lab: 2

ELC 247 -Advanced Studies I

 IAI: None
 1.2

 The Advanced Studies I course begins the fifth year of Electricians Apprenticeship.
 The main focus of this course is advanced studies in electronics, codeology, and code design blueprints.

 Prerequisite: ELC 246
 Credit: 4 semester hours

 Lecture: 3
 Lab: 2

ELC 248 -

12

Advanced Studies II IAI: None 1.2 The Advanced Studies II course is the final class of this program. Students will receive advanced and in-depth instruction in three areas: programmable controllers, blueprints, and air conditioning controls. Prerequisite: ELC 247 Credit: 4 semester hours

Lab: 2

12

ELC 249 -

Lecture: 3

Electrician Internship I IAI: None The Electrician Internship cou

The Electrician Internship course has been developed and established as the onthe-job component of the Electrician Apprenticeship program, consisting of work relating to the wiring of residential, commercial, industrial, and/or specialized electrical systems. All of the on-the-job work-related activities will be performed under the direct supervision of a journeyworker. Students may repeat this course one time.

Prerequisite: ELC 121 Credit: 1 semester hour Lecture: 0 Lab: 5

ELC 250 -

Lecture: 0

Electrician Internship II IAI: None

The Electrician Internship II course is a continuation of the on-the-job component of the Electrician Apprenticeship program. The on-the-job component will consist of work relating to the wiring of residential, commercial, industrial, and/or specialized electrical systems. All of the on-the-job work-related activities will be performed under the direct supervision of a journey-worker. This course is repeatable one time. *Prerequisite: ELC 121 Credit: 1 semester hour*

12

ELC 251 -**Electrician Internship III** IAI: None

1.2 The Electrician Internship III course is a continuation of ELC 250 and serves as the on-the-job component of the Electrician Apprenticeship program. The on-the-job component will consist of work relating to the wiring of residential, commercial, industrial, and/or specialized electrical systems. All of the on-the-job work-related activities will be performed under the direct supervision of a journeyworker. This course is repeatable one time. Prerequisite: ELC 121 Credit: 1 semester hour Lecture: 0 Lab: 5



Liberal Arts Division (815) 921-3317

ART 101 -**Drawing and Composition I** IAI: None

Drawing and Composition is an introduction to fundamental techniques and concepts of representational and expressive drawing within a variety of media. Emphasis is on object representation, spatial illusion, and the organization of structural relationships in two-dimensional space. Three hours of studio time are required each week in addition to the lecture and laboratory hours. Prerequisite: None Credit: 3 semester hours Lecture: 2 Lah· 4

ART 102 -**Drawing and Composition II** IAI: None

Drawing and Composition II is a continuation of ART 101 with greater emphasis on skill in handling materials, exploration of technique, organization of composition, and further development of awareness toward individual concept, theory, choice, process, and change. The interpretation of form and composition in two-dimensional space is reinforced. Three hours of studio time are required each week in addition to the lecture and laboratory hours. Prerequisite: ART 101 or consent of instructor. Credit: 3 semester hours Lecture: 2 Lab: 4

ART 103 -

Design I IAI: None

1.1 Design I is a study of basic artistic expression in two-dimensional design. Studio problems investigate the theoretical principles of composition, form, value, color, balance, pattern and texture. Three hours of studio time are required each week in addition to the lecture and laboratory hours

Prerequisite: None Credit: 3 semester hours Lecture: 2

ART 104 -**Color Theory** IAI: None

1.1 Color Theory is a study of the formal and expressive properties of color based upon the theories of Itten and Albers. Studio problems investigate color compositions using the theoretical principles of color design. Three hours of studio time are required each week in addition to the lecture laboratory hours. Prerequisite: ART 103 or consent of instructor.

Credit: 3 semester hours Lecture 2

ART 111 -Painting I

IAI · None

1.1

1.1

Lab: 4

Painting I is an introduction to the painting medium and its creative procedures in approaches to individual problem-solving. Included are materials and techniques of the medium along with various subjective problems involving form, color, and composition, utilizing criticism and aesthetics. Three hours of studio time are required each week in addition to the lecture and laboratory hours. Prerequisite: ART 102 Credit: 3 semester hours Lab: 4

Lecture: 2

Introduction to Commercial Art IAI: None 11

Introduction to Commercial Art is a study in the layout of photo-ready art for reproduction used in commercial art. Topics include: typography, symbols, illustration, and photography. Students are introduced to page layout, illustration, and photo manipulation software on computer. The class is a studio class and will visit an advertising agency, a print shop and photographic studio. Prerequisite: None Credit: 4 semester hours Lecture: 2 Lab: 4

ART 121 -Ceramics I IAI: None

ART 115 -

Ceramics I is an introduction to the fundamental techniques and concepts of the ceramic arts. The emphasis of this class is the exploration of the ceramic medium as a material for creative expression. Functional and sculptural aspects of the medium will be considered through assignments incorporating hand building, wheel throwing, surface treatments and glazing techniques. Three hours of studio time are required each week in addition to the lecture and laboratory hours. Prerequisite: None Credit: 3 semester hours Lecture: 2 Lab: 4

ART 122 -**Ceramics II**

IAI: None

1.1 Ceramics II is a continuation of Ceramics I. The processes, techniques and aesthetic concepts in the ceramic media are further developed and intensified. Emphasis is placed on individual exploration in either hand building and/or wheel-thrown work by furthering personal awareness of form, content, and design. Three hours of studio time are required each week in addition to the lecture and laboratory hours. Prerequisite: ART 121 or equivalent. Credit: 3 semester hours Lecture: 2 Lab: 4

ART 131 -

Lab. 4

11

Introduction to Visual Arts IAI: F2 900

1.1 Introduction to Visual Arts is a study of aesthetic concepts and their expression in the great art of all periods through the means of lecture, audio-visual aids, and museum visits. This class is intended for students not majoring in studio art. Prerequisite: None Credit: 3 semester hours Lecture: 3

Lab: 0

ART 141 -Introduction to **Nonwestern Visual Art** IAI · F2 903N

11 Introduction to Nonwestern Visual Art is a study of the cultural and aesthetic values of the Oriental, the Native American, the African and Oceanic peoples of the world. Through an exposure to the artistic products of nonwestern peoples, students gain a more international appreciation of aesthetics, and the sociological, spiritual and political content in visual art. The class is taught through slide lectures, video tapes and field trips. Introduction to Nonwestern Visual Art is a nonwestern humanities credit class. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

ART 201 -Life Drawing

11

IAI: None 1.1
Life Drawing is a figurative approach which
emphasizes drawing and composition from
the structure, proportions and movement of
the human model through contour, gesture,
and representational and expressive exer-
cises in a variety of media. Three hours of
studio time are required each week in addi-
tion to the lecture and laboratory hours.

Prerequisite: ART 102 or consent of

instructor. Credit: 3 semester hours Lecture 2

Lah 4

ART 203 -Design II

IAI: None 1.1 Design II covers three-dimensional design. Sculptural works are constructed in a variety of media to explore problems of volume and space relationships. (Offered spring semester.) Prerequisite: ART 103 or consent of instructor.

Credit: 3 semester hours Lecture: 0 Lab. 6

ART 212 -Painting II

IAI: None Painting II continues the processes, tech-

niques and ideas begun in Painting I by developing and intensifying individual direction in the painting media, with further exploration through critiques and discussions for individual comprehension of aesthetic awareness. Three hours of studio time are required each week in addition to the lecture and laboratory hours. Prerequisite: ART 111 Credit: 3 semester hours

Lecture: 2 Lab: 4

ART 215 -**Printmaking I**

IAI – None 11 Printmaking I is an introduction to traditional and contemporary techniques with an emphasis on image development, proper printing techniques, and creative experimentation. Appropriate instruction in the health and safety issues relative to the methods and materials of the course will also be stressed. Three hours of studio time is required each week in addition to the lecture and laboratory hours. Prerequisite: ART 101 and 103, or consent of instructor.

Credit: 3 semester hours Lecture: 1 Lab: 4

ART 246 -

Art History Through Travel IAI: None

11 Art History Through Travel is a study of the major monuments in architecture, painting, and sculpture from Paleolithic times to the present in world art. Instruction is based upon pre-departure topical lectures and foreign travel to major historical sites and museum collections Specialized in-depth studies of related cultures (e.g., Greece and Italy, Egypt and Israel, Spain and Morocco, India and Nepal, Indonesia and Malaysia, Mexico and Central America) will periodically be offered. The lectures and travel itinerary vary from year to year. This course can be taken four times for credit. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

ART 251 -**History of Art I** IAI: F2 901

1.1 History of Art I is a study of the major monuments in architecture, painting, and sculpture from Paleolithic time to the Byzantine and Islamic eras. This course is primarily for art majors. Prerequisite: None Credit: 3 semester hours Lab. 0 Lecture: 3

ART 252 -**History of Art II**

11

IAI: F2 902 11 History of ART II is a study of the major monuments in architecture, painting, and sculpture from the medieval period to the 18th century. This course is primarily for art majors. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

ART 253 -

History of Art III IAI: F2 902

History of Art III is a study of the major monuments in architecture, painting, and sculpture from the romantic period to the contemporary period. This course is primarily for art majors. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

11

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ART 283 -Art in the Elementary Schools

IAI: None 11 Art in the Elementary Schools is an introduction to art education at the primary school level with emphasis on various approaches to art education, art activities in the classroom, methods of display, and evaluation. This course is intended for educators Prerequisite: None Credit: 3 semester hours Lecture: 2 Lab: 2

ART 299 -**Advanced Art Projects** IAI: None

Advanced Art Projects are studies for advanced art students to concentrate in an area of interest. ART 299 may not be used to provide a substitution for an approved catalog course, nor will it fulfill specific general education requirements toward the A.A./A.S. degrees. Students must receive approval from the Associate Dean of Liberal Arts and the Dean of the College.* Prerequisite: 2.5 minimum GPA for 15 college level credit hours. Credit: 1-4 semester hours Lecture: 1 Lab: 2-6

*May be repeated three times for credit.

ASTRONOMY

AST

1.1

Science Division (815) 921-3471

AST 202 -

Introduction to Astronomy IAI: P1 906L

Introduction to Astronomy is a broad survey of modern astronomy examining the solar and stellar systems. Topics discussed range from an overview of the structure and motion of comets asteroids and the planets and their natural satellites, to an examination of our present understanding of the nature, origin and evolution of the sun, stars, galaxies, and special objects. The laboratory provides an opportunity to learn about lenses and mirrors, construction and use of telescopes, how to make measurements, and how to read star charts and locate objects in the heavens. AST 202 is suitable for science and non-science students.

Prerequisite: Sufficiently high placement test score; or completion of MTH 091 & 092 with a grade of "C" or better; or equivalent. Credit: 4 semester hours

Lecture: 3

ATMOSPHERIC SCIENCE

ATS

Lab: 3

Science Division (815) 921-3471

ATS 105 -

Introduction to Atmospheric Science IAI: P1 905L

Introduction to Atmospheric Science is an in-depth examination of the Earth's weather and climate. The course covers a broad range of topics including the origin, composition, and structure of the atmosphere; the formation of clouds and precipitation; the formation of organized weather systems; weather prediction; air pollution; climates; and atmospheric optics. This course fulfills laboratory science requirements for students both inside and outside the curriculum. Prerequisite: Sufficiently high placement test score, or completion of MTH 091 & 092 with a grade of "C" or better, or equivalent. Credit: 4 semester hours

Lecture: 3

Lab: 3

Division of Technical Programs Automotive Center (815) 921-3007

ATM 105 -Introduction to Brake and Chassis Systems

IAI: None 1.2 The Introduction to Brake and Chassis Systems course offers the student an introduction to automotive brake and steering/suspension systems. Theory and operation of these systems is covered. Students will complete basic service procedures on brake and steering/suspension systems to prepare them for initial employment in the automotive service industry and further training in the Automotive Service Technology program. Safety in the use of automotive tools, equipment and chemicals is also covered.

Corequisite: Completion of or concurrent enrollment with ATM 106 and ATM 140.

Lab: 4

1.2

Credit: 3 semester hours Lecture: 1

ATM 106 -Introduction to Automotive **Electrical Systems and Powertrains**

IAI: None 1.2 The Introduction to Automotive Electrical Systems and Powertrains course offers the student an introduction to automotive electrical and engine/transmission systems. Theory and operation of these systems is covered. Students will complete basic service procedures on electrical and engine/ transmission systems to prepare them for initial employment in the automotive service industry and further training in the Automotive Service Technology program. Safety in the use of automotive tools, equipment and chemicals is also covered. Corequisite: Completion or concurrent enrollment with ATM 105 and ATM 140. Credit: 3 semester hours

Lecture: 1 Lab: 4

ATM 107 -Automotive Electronic **Fundamentals**

IAI: None

Automotive Electronic Fundamentals is a continuation of ATM 106 (Introduction to Automotive Electrical Systems and Powertrains). This class will emphasize electrical and electronic theory and analysis and introduce students to solid-state electronic components and systems. Students will determine circuit types and analyze both mathematically and with a digital multimeter.

Prerequisite: ATM 105, ATM 106 or consent of instructor.

Credits: 4 semester hours Lab: 3 Lecture: 3

ATM 114 -Brakes IAI: None

1.2 The Brakes course continues the student's studies of automotive brake systems. This course covers in depth diagnosis, service, and repair procedures of base brake systems and anti-lock brake systems. Live work will be performed on customer vehicles in a real-world shop environment. Prerequisite: ATM 105, ATM 106 or consent of instructor. Credit: 4 semester hours Lab: 4

Lecture: 2

ATM 140 -**Engine Diagnosis and Repair** IAI: None

12 The Engine Diagnosis and Repair course provides basic information on gasoline engine theory, construction, systems, and diagnosis. This information will be applied to mechanical testing and repair procedures for the entire engine. The school provides late model engines for disassembly and reassembly. Live cylinder head work will be provided by the student. Corequisite: Completion of or concurrent enrollment with ATM 105 and ATM 106, or consent of instructor. Credit: 6 semester hours Lecture: 4 Lab: 4

ATM 203 -**Heating and Air Conditioning** Systems IAI: None

12 The Heating and Air-Conditioning Systems course is a lecture-laboratory course designed to train the student in theory, construction, installation, diagnosis, and proper servicing of all types of automotive heating and air conditioning systems. Emphasis is on safety procedures, practical application, and collecting R-12 to protect the environment. Prerequisite: ATM 106 and ATM 107, or

consent of instructor. Credit: 4 semester hours Lah. 3 Lecture: 3

ATM 221 -**Steering and Suspension**

IAI: None

The Steering and Suspension course continues the student's studies of automotive steering and suspension systems. This course covers in-depth diagnosis, service, and repair procedures of steering and suspension systems, and electronic suspension and steering. Live work will be performed on customer vehicles in a realworld shop environment. Prerequisite: ATM 105 and ATM 106, or consent of instructor. Credit: 4 semester hours Lecture: 3

Lab: 3

ATM 222 -**Manual Transmissions/Transaxles**

IAI: None The Manual Transmission/Transaxles course provides training and hands-on experience in diagnosis, service and repair of manual transmissions, transaxles, clutches, drive shafts, CV joints and half shafts, and 4-wheel drive systems. Prerequisite: ATM 105 and ATM 106, or consent of instructor Credit: 4 semester hours Lecture: 3 Lab: 3

ΔTM 223 -

Automotive Electrical Circuits IAI: None

12 The Automotive Electrical Circuits course is a course designed in diagnosis and repair of automotive electrical circuits and diagnosis of automotive electronic circuitry. Emphasis will be on accessory circuits and components.

Prerequisite: ATM, 105, ATM 106, ATM 107, or consent of instructor. Credit: 4 semester hours Lecture: 3 Lab: 3

ATM 228 - Engine Performance I IAI: None

The Engine Performance I course is designed to provide instruction and experience in the theory of operation, diagnosis, and service of solid state, computer-controlled, and distributorless ignition systems. It is designed to provide instruction and experience in the theory of operation, diagnosis, and service of automotive fuel systems and their related sub-systems. This course covers related emission systems and usage of ignition scopes, digital analyzers, scan tools, and other hand held equipment. Prerequisite: Completion of two semesters of automotive course work or consent of instructor. Credit: 5 semester hours Lab: 5

Lecture: 3

ATM 229 -

12

Engine Performance II IAI: None

The Engine Performance II course is a continuation of Engine Performance I. This course is designed to analyze, diagnose, and test second generation ignition, fuel, and On-board Diagnostic II (OBDII) computer systems. Emphasis is placed on scan tool analysis and recording along with current graphing of fuel, ignition and sub-systems. Analysis will be performed by the usage of aftermarket and manufacturers scan tools and digital storage scopes interfaced with induction current probes. Prerequisite: ATM 105, ATM 106, ATM 140, and ATM 228 or consent of instructor

Credit: 5 semester hours Lecture: 3

Lah: 5

1.2

ATM 236 -**Advanced Computers/Controls Systems**

12

IAI: None

The Advanced Computers/Controls Systems course is a lecture-laboratory course designed to increase the student's level of knowledge of automotive computer-controlled systems. This course covers an in-depth analysis and testing of OBDII, variable ratio steering systems, ABS, and the latest body-controlled module (BCM) and powertrain-control module (PCM) controlled functions. Analysis will be performed using digital meters, oscilloscopes, PC interfacing software, and other hand held equipment. Prerequisite: ATM 107 or consent of instructor. Credit: 4 semester hours Lecture: 3 Lab: 3

ATM 242 -

AutomaticTransmissions/Transaxles IAI: None

The Automatic Transmissions/Transaxles course covers the theory of Simpson gear trains, removal, disassembly, rebuilding and installation of automatic transmissions and transaxles. Includes in-car diagnosis and service, hydraulics and electronics. Prerequisite: ATM 105 and ATM 106, or consent of instructor. Credit: 5 semester hours Lecture: 3 Lab. 5

ATM 285 -**Independent Study**

IAI: None

The Independent Study course allows students to develop specific course goals and objectives based on their needs and previous automotive experience. Students will work with the automotive instructor to determine course goals and length of training time.

Prerequisite: Automotive maintenance experience or completion of automotive courses in the process area of study. Credit: 1-6 semester hours Lab. 0 Lecture: 1-6

ATM 290 -**Special Topics**

IAI: None

The Special Topics course is designed to satisfy topics of special interest in a particular area of automotive. Topics will vary from semester to semester. Students may repeat this course up to a maximum of six credit hours. Prerequisite: None.

Credit: 1-6 semester hours Lecture: 1-6

AVIATION MAINTENANCE TECHNOLOGY

Falcon Road Center (815) 921-3000 or 921-3016

AVM

1.2

AVM 101 -**Materials and Processes**

IAI: None

The Materials and Processes course consists of theory and practice in nondestructive testing methods, basic heat treating, aircraft hardware and materials, inspection and checking of welds. Special stress will be on the fabrication of flexible and rigid lines

Corequisite: Completion of or concurrent enrollment with AVM 103 and AVM 105 Credit: 3 semester hours

Lecture: 2.5 Lab: 2.5

AVM 102 -**Basic Electricity**

1.2 IAI: None The Basic Electricity course is oriented to the aircraft system. This includes capacitance, inductance, calculating and measuring electrical power, current, resistance, continuity, and leakages. Reading schematic diagrams is emphasized. A study is also made of acid and alkaline batteries. Prerequisite: AVM 101 or consent of instructor. Credit: 3 semester hours Lecture: 2 Lab: 3

AVM 103 -

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Lab: 0

Aviation Mathematics and Physics IAI: None

The Aviation Mathematics and Physics course is geared to the needs of the aviation maintenance technician. This includes extracting roots, raising numbers to a given power, and computing the areas and volumes of geometrical shapes. Also included is solving ratio, percentage, and proportion problems. Algebraic operations in the use of positive and negative numbers is stressed. The physics material will offer the principles of simple machines, sound, fluid, and heat dynamics. Corequisite: Completion of or concurrent enrollment with AVM 101 and AVM 105

Lab: 2

Credit: 2 semester hours Lecture: 1

AVM 104 -**Records and Publications** IAI: None

1.2 The Records and Publications course includes record keeping and reference to current maintenance publications. Students will be required to write descriptions of aircraft condition and work performed, as well as complete required maintenance forms, records, and inspection reports. Students will also learn to select and use FAA. manufacturers' data sheets. and Federal Aviation Regulations. Students will be able to read and interpret technical data and understand the mechanic's privileges and limitations. Prerequisite: AVM 101 or consent of

instructor. Credit: 3 semester hours Lecture: 2.5 Lab: 2.5

AVM 105 -

Aircraft Drawing – Weight and Balance

1.2

Lab: 2.5

IAI: None

The Aircraft Drawing course is designed to make use of drawings, symbols, and schematic diagrams. Students will use blueprint information, charts, and graphs. Also covered is the weighing of aircraft with the completion of weight and balance checks and the recording of data. Corequisite: Completion of or concurrent enrollment with AVM 101 and AVM 103 Credit: 3 semester hours

Lecture: 2.5

AVM 106 -

Cleaning and Corrosion Control IAI: None 12

The Cleaning and Corrosion Control course covers detection, identification and treatment of corrosion on aircraft structures. Corrosion prevention strategy and phenomenon theory will be investigated. Prerequisite: AVM 104 or consent of instructor. Credit: 3 semester hours Lab: 2.5 Lecture: 2.5

AVM 160 -

Fuel and Lubrication Systems IAI: None 12

The Fuel and Lubrication Systems course covers the identification and selection of aircraft fuels lubricants and their systems as they apply to specific operating conditions and other utility requirements. Included is a detailed study of carburetion and fuel injection methods as they serve the complex fuel metering demands of modern aircraft powerplants. Prerequisite: AVM 162 or consent of instructor Credit: 6 semester hours Lecture: 5 Lab: 5

AVM 161 -Engine Support Systems IAI: None

IAI: None1.2The Engine Support Systems course is a
theoretical and practical approach to the
systems that coordinate the powerplant.They are engine instruments, fire protec-
tion, induction and supercharging, cooling,
and exhaust systems. Inspections of these
systems will be stressed.Prerequisite: AVM 160 or consent of
instructor.Credit: 3 semester hours
Lecture: 2Lab: 3

AVM 162 -Basic Powerplants IAI: None

1.2The Basic Powerplants course is a study of each engine part in theoretical and practical detail. Students will disassemble an aircraft engine and determine dimensional compliance with overhaul specifications while using precision instruments and gauges. The engine will be reassembled to operational standards. Students will be supervised in the operation of assorted types of reciprocating engines early in the course for orientation purposes. Prerequisite: AVM 106 and AVM 247 or consent of instructor. Credit: 6 semester hours Lecture: 5 Lab: 5

AVM 163 -Ignition Systems

IAI: None

The Ignition Systems course is a complete study of high and low tension systems for reciprocating and turbine engines. Magnetos will be treated in detail. Special emphasis will be placed on switches, harnesses and spark plugs with related troubleshooting under operational conditions. *Prerequisite: AVM 162 or consent of instructor. Credit: 3 semester hours*

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Lecture: 3 Lab: 2

AVM 164 -Advanced Powerplants

IAI: None 1.2 The Advanced Powerplants course is a theoretical and practical approach to servicing, repair, overhaul, and operation of reciprocating and turbine engines with stress on developing troubleshooting skills. Theory and operation of induction, cooling, and exhaust systems for reciprocating and turbine engines will be covered. Removal and installation of engines and components and control rigging will be practiced. *Prerequisite: AVM 162 or consent of*

instructor. Credit: 6 semester hours Lecture: 5 Lab: 5

AVM 165 -Engine Electrical Systems IAI: None

The Engine Electrical Systems course consists of theory and practice in the repair and testing of engine electrical components including starters, generators, alternators and their regulating devices, switches, controls, wiring and circuit protection methods. *Prerequisite: AVM 160 or consent of instructor. Credit: 2 semester hours Lecture: 1 Lab: 2*

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AVM 166 -Propeller Systems

IAI: None

The Propeller Systems course covers the theory and practice of propeller installation and removal, inspection, servicing and repair of fixed pitch, constant speed, full feathering propellers and their governing systems. *Prerequisite: AVM 160 or consent of instructor. Credit: 3 semester hours* Lecture: 2.5 Lab: 2.5

AVM 241 -Aircraft Finishing and Covering IAI: None 1.2

The Aircraft Finishing and Covering course presents procedures concerning the interior and exterior structure of airframes as they apply to various finishing methods. Emphasis will center on application of trim, letters, touch up paint and dope, inspection of finishes and identification of defects. An introduction to fabric-covering plastics, honeycomb, laminated structures, bonded structures, interiors, doors and windows will also be covered. Prerequisite: AVM 106 or consent of instructor. Credit: 3 semester hours Lecture: 2.5 Lab: 2.5

AVM 242 -Cabin Atmosphere Control Systems

IAI: None

The Cabin Atmosphere Control Systems course covers the inspection, checking, troubleshooting, service and repair of heating, cooling, air conditioning, pressurization, and oxygen systems. *Prerequisite: AVM 246 or consent of instructor. Credit: 2 semester hours Lecture: 1 Lab: 2*

AVM 243 -Aircraft Welding

IAI: None

The Aircraft Welding course is a theoretical and practical approach to the methods of aircraft fabrication and repair by gas, arc, and heliarc welding. To be covered is the welding of steel, magnesium, titanium, and aluminum, the soldering of stainless steel and brass; brazing, and the fabrication of tubular structures. *Prerequisite: AVM 246 or consent of instructor. Credit: 1 semester hour Lecture: 1 Lab: 1*

AVM 244 -Aircraft Auxiliary Systems

IAI: None1.2The Aircraft Auxiliary Systems course cov-
ers the inspection, checking, troubleshoot-
ing, servicing, and repair of aircraft posi-
tion and warning, ice and rain control, and
fire protection systems.Prerequisite: AVM 246 or consent of
instructor.Credit: 1 semester hour
Lecture: 1Lab: 1

AVM 245 -Aircraft Electrical Systems

IAI: None1.2The Aircraft Electrical Systems course is
designed to familiarize students with the
installation, checking, troubleshooting,
servicing, and repair of aircraft electrical
systems and components.
Prerequisite: AVM 102 or consent of
instructor.
Credit: 3 semester hours
Lecture: 2.5Lab: 2.5

AVM 246 -

Aircraft Instruments and Communication Systems IAI: None

IAI: None 1.2 The Aircraft Instruments and Communication Systems course is designed to give students a basic understanding of installation, inspection, checking, servicing, and repair of aircraft instrument, communication and navigation systems.

Prerequisite: AVM 104 or consent of instructor. Credit: 2 semester hours Lecture: 1 Lab: 2

AVM 247 -Aircraft Metal Structures

IAI: None1.2The Aircraft Metal Structures course cov-
ers the inspection, installation, repair,
checking, servicing, and fabrication of
sheet metal.Prerequisite: AVM 250 or consent of
instructor.
Credit: 6 semester hours
Lecture: 5Lab: 5

AVM 248 -

Hydraulic and Pneumatic Control Systems

IAI: None1.2The Hydraulic and Pneumatic ControlSystems course covers the repair, inspection, checking, servicing, and troubleshooting of hydraulic and pneumatic systems.Also covered is the identification andselection of hydraulic lubricants.Corequisite: Completion of or concurrent enrollment with AVM 249 and AVM250.Credit: 3 semester hoursLecture: 2.5Lab: 2.5

AVM 249 -**Aircraft Fuel Systems** IAI: None

1.2 The Aircraft Fuel Systems course explains checking, inspection, repair, troubleshooting, servicing, management, transfer, and defueling of fuel systems. To be included are fuel pump, pressure fueling, components, fluid quantity, pressure and temperature warning systems.

Corequisite: Completion of or concurrent enrollment with AVM 248 and AVM 250

Credit: 1 semester hour Lab[•] 1 Lecture: 1

AVM 250 -**Assembly and Rigging**

IAI: None

The Assembly and Rigging course provides practical knowledge in rigging alignment, assembly, balancing, and jacking of aircraft. Corequisite: Completion of or concurrent enrollment with AVM 248 and AVM 249.

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Credit: 3 semester hours	
Lecture: 2.5	Lab: 2.5

AVM 251 -**Landing Gears Systems**

12 IAI: None The Landing Gears Systems course includes the inspection, checking, servicing and repair of landing gear, retraction systems, shock struts, brakes, wheels, tires and steering systems. Prerequisite: AVM 250 or consent of instructor Credit: 3 semester hours Lecture: 2.5 Lab: 2.5

AVM 252 -**Airframe Inspection**

IAI: None 1.2The Airframe Inspection course covers the performance of airframe conformity and airworthiness inspection procedures. Prerequisite: AVM 246 or consent of instructor. Credit: 2 semester hours Lecture: 2 Lab: 1

AVM 285 -**Independent Study**

12 IAI: None The Independent Study course is for the aviation maintenance technology student who wishes to take their oral and practical FAA exams at Rock Valley College. A repeat of this course, up to six credits, is permissible. Prerequisite: None Credit: 1-6 semester hours Lecture: 1-6 Lab: 0

AVM 290 -

Special Topics IAI: None

1.2 The Special Topics course is designed to satisfy topics of special interest in a particular area of aviation. Topics will vary from semester to semester. Students may repeat this course up to a maximum of six credit hours. Prerequisite: None

Credit: 1-6 semester hours 94 Lecture: 1-6 Lab: 0

BIOLOGY

Science Division (815) 921-3471

BIO 100 -

Introductory Human Biology IAI: L1 904

Introduction to Human Biology is intended to equip liberal arts majors having limited or no science background with a knowledge of human biology. General principles of biology are integrated with the consideration of the human organism as an individual and as a member of society. Content will include biochemistry, human metabolism, a review of the systems, human genetics and human reproduction. Credit will not be counted toward graduation if taken after any college anatomy course. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

BIO 103 -

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Introductory Life Science IAI: L1 900

1.1 Introductory Life Science is designed as an introductory life science course for liberal arts majors or other students interested in a survey of biological principles. Topics covered range from the cell and the theory of evolution to genetic engineering. Credit for BIO 103 will not be counted toward graduation if students have previous credit for BIO 205. Prerequisite: None Cr

redit: 3 semester hours	
ecture: 3	Lab: 0

BIO 104 -**Introductory Life Science** Laboratory IAI: L1 900L

Introductory Life Science Laboratory is intended as a laboratory experience to complement BIO 103. Students meet two hours each week and explore basic biological concepts through hands-on exercises and online laboratories. Credit for BIO 104 will not be counted toward graduation if students have previous credit for BIO 205. Prerequisite: This course is limited to students currently enrolled or who have completed BIO 103 or its equivalent. Credit: 1 semester hour Lecture: 0 Lab: 2

BIO 106 -

Environmental Science IAI: L1 905

1.1 Environmental Science is designed as an introductory life science course for liberal arts majors or other students interested in environmental issues. Students study aspects of ecology, pollution, and other environmental issues, with emphasis on current events and possible solutions for the future. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

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BIO 107 -**Environmental Science Laboratory**

IAI: L1 905L Environmental Science Laboratory is intended to complement BIO 106. Students meet two hours a week and explore environmental topics through hands-on exercises, videos, field experiences, and computer activities. Prerequisite: This course is limited to students currently enrolled in BIO 106 or who have completed it or its equivalent. Credit: 1 semester hour Lecture: 0

Lab: 2

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Lab: 2

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BIO 137 -

Tropical Marine Biology IAI: None

Tropical Marine Biology is an elective field experience class with animal and plant identification in a tropical region. Emphasis is on marine organisms with identification by common name. There is also an orientation to the culture of the country visited. Methods of study include lectures, field trips, wading in tide pools, and snorkeling at coral reefs. Saturday orientations are held in late fall with an eight to 10 day field trip during winter intersession offered in alternate years. Prerequisite: None

Credit: 3 semester hours Lecture: 2

BIO 140 -Introduction to Evolution

IAI: L1 907

Introduction to Evolution is designed to introduce the student to the major principles of evolutionary biology. The course will include a history of evolutionary thought and will work through the fundamental concepts of geological evolution and its impact on life, the origins and history of life, mechanisms of evolution, and evolutionary genetics. Although the emphasis will be on major concepts, the course will also provide some understanding of the methods used in evolutionary investigations. Prerequisite: None

Credit: 3 semester hours Lecture: 3

BIO 150 -

Microbes	and	Society
IAI: L1 903		

11 Microbes and Society is designed for the general student who wishes to learn more microbes. Disease, biological weapons, the foods we eat, and environmental cleanup are just a few of the ways microbes affect our lives. Microbes have the potential to destroy us and save us. This class explores the relationship between society and these fascinating organisms. Prerequisite: None Credit: 3 semester hours Lecture: 3

Lab: 0

Lab: 0

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BIO 155 -**Microbes and Society Laboratory** (Approval Pending) IAI: L1 903L 11

Microbes and society is designed for the general student who wishes to learn more about microbes. Disease, biological weapons, the foods we eat, and environmental cleanup are just a few of the ways microbes affect our lives. Microbes have the potential to destroy us and save us. This class explores the relationship between society and these fascinating organisms. Prerequisite: This course is limited to

students currently enrolled or who have completed BIO 150. Credit: 1 semester hour Lecture: 0 Lab: 2

BIO 162 -**Human Heredity**

IAI: L1 906

Human Heredity is designed for the general student who wants to learn more about the principles of human heredity, population genetics, and recent discoveries in genetics including the mapping of the human chromosome and genetic technology. The ethical issues raised due to advances in human heredity will also be examined. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab. 0

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BIO 164 -**Field Ecology**

IAI · None

Field Ecology is a travel experience course to study the effects of glaciation, soils and climate on plant and animal communities. Indicator species, stability, and succession of communities are compared. Identification of communities, vegetation, and animals is required, with an emphasis on field study. A one-week field trip is conducted during spring or summer interim. Prerequisite: None

Credit: 3 semester hours Lab: 2 Lecture: 2

BIO 166 -**Tropical Ecology** IAI: None

Tropical Ecology is a travel/field experience that provides a general overview of a wide variety of biological topics including ecology. environmental biology, and natural history as they apply to the specific region visited. Fieldwork will include the collection, identification, and classification of regional plants and animals; observation and analysis of the various ecosystems of the area; discussion of the interaction between the nonliving and living components of the ecosystems encountered; and orientation to the culture of the country visited. Methods of study will include lectures, field excursions, and laboratory exercises at the field station's facilities. Orientation meetings will be required preceding the trip offered in alternate years. Prerequisite: None

Credit: 3	semester	hours	
Lecture:	2	Lab:	2

BIO 171 -**Biology of Human Disease** IAI: None

Biology of Human Disease is designed for the general student who wishes to learn more about diseases affecting the human body, their causes, transmission, prevention and cures. Topics covered include the causes of disease, the body's response to disease, ways to prevent disease, and specific disorders such as viral diseases, sexually transmitted diseases, AIDS and cancer. Prerequisite: None Credit: 3 semester hours Lab. 0 Lecture: 3

BIO 185 -Foundations of Anatomy and Physiology IAI: None

1.1 Foundations of Anatomy and Physiology undertakes a systems-approach, comprehensive study of the human body. Lab emphasizes the interrelationships between structure and function. The course is intended for students in prenursing, prerespiratory therapy, preradiology, physical education, or other fields requiring only one semester of Anatomy and Physiology. Credit for BIO 185 will not be counted toward graduation upon completion of BIO 281 or BIO 282. Prerequisite: High school chemistry and biology within last five years or chemistry and biology at the college level. Credit: 5 semester hours Lab: 2 Lecture: 4

BIO 205 -

Principles of Biology IAI: BIO 910

Principles of Biology is the first required course for pre-professional and life science majors. Emphasis is on broad biological and biochemical concepts including cell structure and function, biochemistry, energy requirements and genetics with special emphasis on laboratory procedures. Prerequisite: CHM 120 or its equivalent. This is the first of three courses essential for all biology majors (205, 211, 221). Credit: 4 semester hours Lecture: 3 Lab: 3

BIO 208 -Science in Elementary School: **Teaching Evolution**

IAI: LI 900 11 Science in the Elementary School: Teaching Evolution is a course for teachers which concentrates on the teaching of evolution as a focus for developing inquirybased science education. It will include evolutionary content, methodologies for teaching evolution in the classroom, and strategies for dealing with the controversy that might arise in the teaching of evolution. Course content is tied to the National Science Education Standards. Prerequisite: PSY 270 or permission of instructor.

Credit: 3 semester hours

Lecture: 3 Lab: 0

BIO 210 -Introductory Field Botany

IAI: None 1.1 Introductory Field Botany entails recognition of the major plant communities in the Northern Illinois area. Lecture and lab involve ecological study of the dominant plants in these communities, plant identification, plant form and function. Two-thirds of the time is spent in the field. Prerequisite: None Credit: 4 semester hours Lecture: 2 Lab: 4

BIO 211 -

11

General Botany

IAI: L1901L, BIO 910 1.1 General Botany considers topics such as the plant cells, metabolism, reproduction, evolution, ecology, anatomy, and characteristics of the major taxonomic groups. Ecological adaptations of these groups are emphasized, including their morphological, physiological, and behavioristic features. This is one of three courses essential for all biology majors (205, 211, 221). Prerequisite: None Credit: 4 semester hours Lecture: 2 Lab: 4

BIO 213 -

Practical Botany

IAI: None 11 Practical Botany is designed for students seeking a better general knowledge of plants and their uses. It involves the study of plant structure, seeds, growth regulation, soils, cloning, controlled environments, edible wild plants, natural dyes, landscaping, house plants, natural communities, plant pests, spice-drug plants and new uses of plants. No previous experience with botany is necessary. Prerequisite: None Credit: 3 semester hours Lab: 0

Lecture: 3

BIO 221 -

1.1

General Zoology

IAI: L1 902L, BIO 910 11 General Zoology is designed to introduce life science and preprofessional majors to the broad scope of animal life and zoological principles. Lectures stress evolution and relationships of animal groups, natural history, ecology, and life cycles. Laboratory sessions are devoted to taxonomy and structure of the animals. This is one of the three courses essential for all biology majors (205, 211, 221). Prerequisite: None Credit: 4 semester hours Lecture: 2 Lab: 4

BIO 274 -Microbiology IAI: None

Microbiology is an introduction to the interrelationships among microorganisms and between them and their living and non-living environments. The broad principles of microbiology illustrated are applicable to a wide range of student interest and may provide a foundation for study in the various divisions of the medical and biological professions.

1.1

Prerequisite: Four credits of college biology or four credits of college chemistry. Credit: 4 semester hours Lecture: 2 Lab: 4

BIO 281 -

Human Anatomy and Physiology I IAI: None

Human Anatomy and Physiology I is designed for students pursuing admission to four-year nursing and other Allied Health programs. This in depth course covers approximately half the body systems, including cytology, histology, and the integumentary, skeletal, muscular and nervous systems. Laboratory exercises provide hands-on study through the use of prepared materials, cadavers, histological preparations, and computer simulations. Prerequisite: CHM 120, or CHM 210 Credit: 4 semester hours Lab: 3 Lecture: 3

BIO 282 -

Human Anatomy and Physiology II IAI: None

Human Anatomy and Physiology II is a companion course to BIO 281-Anatomy and Physiology I. Anatomy and Physiology II covers the remaining body systems including endocrine circulatory, lymphatic, respiratory, digestive, urinary, endocrine and reproductive, as well as, fluid and electrolyte balance, and acid base balance. Prerequisite: BIO 281 Credit: 4 semester hours Lecture: 3 Lab: 3

BIO 290 -**Applied Research in Biology** IAI: None

1.1 Applied Research in Biology provides elective credit for serving as an intern in a field research environment. Students will learn about research methods, use of laboratory equipment, and the role of the research team. Prerequisite: Permission of instructor.

Credit: 3 semester hours Lecture: 0 Lab: 5-15

BOTANY

- See Biology

BUILDING **CONSTRUCTION** TECHNOLOGY

Division of Engineering and Technology (815) 921-3101

BCT

12

BCT 101 -**Introductory Drafting** IAI: None

Introductory Drafting presents fundamental principles designed to allow the student to communicate effectively in the graphic language. This course introduces the concepts and applications of drafting equipment and tools, lettering, sketching, geometric construction, and residential planning. A partial set of residential working drawings constitutes the major project. Prerequisite: None Credit: 3 semester hours

Lecture: 2 Lab: 2

BCT 104 -**Residential Construction Blueprint** Reading 1.2 IAI: None

Residential Construction Blueprint Reading is an introductory survey course relating the necessary blueprint concepts used in the industry to the final construction process. Topical areas include: the vocabulary of lines, reading scales, construction mathematics, basic drawing projection, use of symbols, reading basic specifications, dimensioning basic drawings, and obtaining information from schedules. Prerequisite: Concurrent enrollment in BCT 101 or consent of instructor. Credit: 2 semester hours Lecture: 2 Lab: 0

BCT 117 -**Construction Materials I** IAI: None

1.2 Construction Materials I is a survey of several manufactured products for the building industry primarily used as structural or framing members. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

BCT 119 -

Construction Materials II IAI: None

1.2 Construction Materials II is a survey of several manufacturing products for the building industry primarily used as protective or finishing materials. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

BCT 168 -**Construction Internship** IAI: None

1.2 Construction Internship requires a supervised experience in a building construction technology using a cooperative training plan agreed to by the instructor, participating firm and student. The student must submit an application to the instructor prior to mid-term of the previous semester and requires consent of the instructor or division director. Variable and repeatable credit may be earned up to six hours. Prerequisite: Current enrollment in the Building Construction Technology curriculum; completion of at least 15 credits in BCT courses. Credit: 1-6 semester hours

Lecture: 0

BCT 190 -

Lab: 5-30

12

Commercial Construction Blueprint Reading IAI: None

1.2 Commercial Construction Blueprint Reading is an all-inclusive blueprint interpretation and methodology course. Emphasis is on developing a broad knowledge in reading structural blueprints and specifications used in commercial construction. This course covers wood frame. concrete, masonry, and steel frame structures. Students complete a trade competency exam at the end of each unit. Prerequisite: BCT 104 or consent of instructor. Credit: 3 semester hours Lecture: 2 Lab. 2

BCT 195 -

Construction Surveying I IAI · None

Construction Surveying I includes the fundamentals of plane surveying and the use of surveying equipment, emphasizing construction-related aspects of surveying and the development of skills in using surveying field information. The measuring of distance, theory and practice of levels, angles, bearing principles, surveying, and construction surveying problems are studied in coordinated class and laboratory assignments. Prerequisite: None Credit: 3 semester hours Lecture: 2 Lab: 2

BCT 202 -

Residential Mechanical Systems IAI: None 12

Residential Mechanical Systems introduces the basic systems used in home construction. Heating, plumbing, and electrical systems are discussed with application to basic functions, design, and efficiency. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

Lab: 2

12

BCT 218 - Construction Surveying II IAI: None

1.2 Construction Surveying II is an advanced surveying course for construction technicians. Major concepts covered are triangulation, construction computations, coordinate systems, land surveying, and engineering surveying. The student will use a Total Station in the field to collect surveying data and interface CAD software to generate drawings and maps. Prerequisite: BCT 195, MTH 100, MTH 132, or MTH 125 Credit: 3 semester hours Lecture: 2 Lab: 2

BCT 219 -**Statics and Strength of Materials** for Building Construction IAI: None

1.2Statics and Strength of Materials for Building Construction provides the analysis of real force systems by the application of the principles of equilibrium to rigid bodies, and simple structures. This course is a study of stresses and deformations produced by external forces under various loading conditions and specifically applied to building construction technology. Computer-aided design will be incorporated where applicable. Prerequisite: MTH 100, MTH 132 or MTH 125, or consent of instructor.

Credit: 3 semester hours Lecture: 2 Lab: 2

BCT 225 -**Construction Safety**

IAI: None

1.2Construction Safety presents a comprehensive review of safety and health standards for the construction industry as required by the Occupational Safety and Health Administration, Department of Labor. Certificate cards are issued for completion of this course. Prerequisite: None Credit: 3 semester hours Lab: 0 Lecture: 3

BCT 237 -**Computer-Aided Architectural** Drafting

12 IAI: None Computer-Aided Architectural Drafting provides the student with the opportunity to learn architectural applications of AutoCAD. Although no previous computer experience is required, a basic knowledge of architectural drafting conventions is required. Prerequisite: BCT 104 or recent drafting experience. Credit: 3 semester hours

Lab: 2 Lecture: 2

BCT 239 -Wood Frame Structures IAI: None

1.2 Wood Frame Structures presents fundamental principles that allow the student to communicate effectively in the graphic language concerning wood structural components. Students are introduced to structural wood framing techniques, with emphasis on primary structural members and their relative position within residential and light commercial construction projects. Structural framing plans, drawn on the CAD system, are typical required lab projects. Prerequisite: BCT 237 Credit: 3 semester hours Lecture: 2 Lab: 2

BCT 248 -**Computer-Aided Architectural** Drafting II IAI: None

12 Computer-Aided Architectural Drafting II expands upon the concepts studied in BCT 237. Introduction to use of script files, menu editing, drawing attributes, and 3-D applications for architectural drafting will be presented. The student will study applicable AutoCAD linkages with other architectural-related software programs. Prerequisite: BCT 237 or consent of instructor. Credit: 3 semester hours Lecture: 2 Lab. 2

BCT 250 -Special Topics in Building Construction IAI: None

1.2 Special Topics in Building Construction explores specific applications, skills, or interest in building construction technology. A special topic requires: adequate and available materials on a specific construction related issue, a comprehensive course outline, instructor expertise, student and community interest, and ability to increase skills and/or knowledge in building construction technology. Variable and repeatable credit up to six credit hours may be earned. Prerequisite: Determined by the special

topic and consent of instructor. Credit: 1-6 semester hours Lecture: 1-6 Lab: 0-4

BCT 251 -Codes, Contracts, and Specifications

IAI: None 1.2 Codes, Contracts, and Specifications is a survey of the various types of building codes and contract documents associated with residential and commercial construction projects. Specifications are discussed in detail and computer generated specifications are demonstrated. A case study of a current construction project constitutes the major project. Prerequisite: BCT 104 or consent of instructor. Credit: 3 semester hours Lecture: 3 Lab: 0

BCT 260 -**Building Construction Estimating** IAI: None

Building Construction Estimating introduces the basic concepts of preparing construction cost estimates including the four major components-material, labor, overhead, and profit. A systematic approach to quantity surveys is emphasized. Students first apply manual techniques and then utilize a computer and Timberline software to complete an estimating project of an entire residence

Prerequisite: BCT 190 Credit: 3 semester hours Lecture: 2

BCT 270 -

Construction Job Scheduling IAI: None

Construction Job Scheduling introduces the concepts and skills necessary to effectively schedule and communicate a construction project. The student is introduced to the critical path method and PERT. Practical scheduling projects apply both manual techniques and commercial software for a personal computer. Construction management components of planning, cost awareness, and resource control are presented and applied. Prerequisite: BCT 260 Credit: 3 semester hours Lecture: 2 Lab. 2

BCT 287 -

Structural Detailing IAI. None

12 Structural Detailing provides the student an experience in preparing structural detail drawings for application to commercial structures of steel and concrete. Principles of steel, reinforced concrete and pre-cast concrete are introduced for background in the standards and conventions of logical detailing. Structural detail drawings are created using a CAD system. Prerequisite: BCT 239 Credit: 3 semester hours Lab: 2 Lecture: 2

BCT 298 -**Independent Study** IAI: None

Independent Study encourages individual projects or research of special interest related to Building Construction Technology. The student must submit an application to the division director prior to mid-term of the prior semester for a specific topic in cooperation with a qualified instructor. Approval of the topic and study plan by the instructor and division director is required. Variable and repeatable credit up to six hours may be earned. Prerequisite: Current enrollment in the Building Construction Technology curriculum, completion of a minimum of 12 credits in BCT courses, and sophomore class standing. Credit: 1-6 semester hours Lecture: 0 Lab: 5-30

12

BUSINESS

Division of Business/Computers and Information Systems (815) 921-3101

BUS

Lab: 0

BUS 101 -Introduction to Business

IAI: BUS 911 1.1 Introduction to Business introduces business functions, operations, and organization. The course includes ownership and management, forms of organizations, finance, business ethics, personnel and labor-management relations, and marketing. *Prerequisite: None Credit: 3 semester hours Lecture: 3* Lab: 0

BUS 103 -

Business Mathematics

IAI: None 1.2 Business Mathematics develops skill in handling the mathematics of business transactions as a businessperson and a consumer. After a review of the fundamental processes, problems are covered which involve percentage, markup, discounts, interest, taxation, bank reconciliation, payroll, insurance, index numbers, stocks and bonds. Credit may not be earned in both BUS 100 and 103. Prerequisite: MTH 091 & 092 with a grade of C or higher. Credit: 3 semester hours

Lecture: 3

BUS 105 -Consumer Economics and Personal Finance IAI: None

IAI: None 1.1 Consumer Economics and Personal Finance studies the personal, social, and political aspects of consumer roles. Among the topics discussed are consumer rights and responsibilities, consumer law, consumer decision-making, purchase decisions in various product and service categories, budgeting, taxes, macro-economic policy and inflation, borrowing, saving and investing.

Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

BUS 170 – Introduction to Organizational Behavior

 IAI: None
 1.2

 Introduction to Organizational Behavior is an introduction to the theories and concepts of human behavior and organizations. Foundations of behavior of individuals and groups and organizational structure are studied. Application of these theories and concepts of management issues are discussed.

 Prerequisite: None

 Credit: 3 semester hours

 Lecture: 3
 Lab: 0

BUS 200 -Legal Environment in Business

IAI: BUS 9131.1Legal Environment in Business is a study
of the legal and social environment of busi-
ness, with emphases on business ethics
and corporate social responsibilities. Areas
of concentration include governmental reg-
ulation of business, securities law, con-
sumer protection law, labor law and
employment law.Prerequisite: None
Credit: 3 semester hours
Lecture: 3Lab: 0

BUS 201 -Business Law

 IAI: BUS 912
 1.1

 Business Law is an introduction to the
 legal system as it affects business activity.

 Areas of concentration include formation and nature of contracts, the agency relationships, and the Uniform Commercial Code, Law of Sales, and Commercial Paper.

 Prerequisite: None

 Credit: 3 semester hours

 Lecture: 3
 Lab: 0

BUS 203 -Economics for Business IAI: None

11 Economics for Business is a basic survey course in economics focusing on conceptual understanding of basic economic principles and their application to practical analysis rather than mathematical interpretations. Areas of concentration include economic decision-making, price determination, goals and problems of the macro economy, the role of government in the macro-economy and markets, monetary theory, costs of production, competition and market structure, and labor issues. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

BUS 206 -Fundamentals of Investing IAI: None

12 Fundamentals of Investing is a course that focuses on personal investment planning and analysis. Emphasis will be on methods of evaluation applicable to all types of personal investments. Specific vehicles discussed include common and preferred stock, short to long-term debt securities, gold, real estate and other tangibles, noload and load mutual funds, insurance products, IRA's and other retirement vehicles, warrants, options and futures contracts. Suitability of particular investments to individual student objectives and circumstances will be stressed. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

BUS 207 -The Virtual Company

IAI: None 1.2 The Virtual Company is a multidisciplinary course which integrates education with business. Students work as team members in a simulated business firm in a state-ofthe-art facility performing the business functions of purchasing, accounting, marketing, and human resources as they transact business with other virtual companies throughout the world. Skills developed include inter- and intra-group communications, group leadership, teamwork, problem-solving and decision-making. Prerequisite: BUS 101 or consent of the instructor.

Lab: 4

11

Credit: 4 semester hours Lecture: 2

BUS 223 -

Business Statistics

Business Statistics addresses the basic concepts of statistical analysis used in business decision-making, including the use of probability to deal with uncertainty. The student will analyze and work out simple problems and will be able to recognize the application of different statistical techniques, interpret the results of analyses, and recognize instances in which statistical techniques have been misused. Statistical concepts and techniques covered include measures of location, measures of variability, sampling distributions, interval estimation, hypothesis testing, variance analysis, and simple linear regression.

Prerequisite: MTH 120 or MTH 160 or approval of instructor. Credit: 3 semester hours Lecture: 3 Lab: 0

BUS 272 -Internship in Business Administration

IAI: None 1.2 Internship in Business Administration recognizes that participation in a work setting can provide a significant educational experience beyond what can be accomplished in a formal classroom. This course provides supervised occupational experience in business administration. The student will identify an area of career emphasis which should relate to the student's intended career objective. A training plan will be developed by the student, the faculty coordinator, and the cooperating employment supervisor. The internship site is to be arranged by the student. A maximum of six semester hours of credit can be earned in this course or a combination of this course and an independent study course.

Prerequisite: Completion of 30 semester hours of credit in the Business Administration curriculum at Rock Valley College. Credit: 1-6 semester hours Lecture: 0 Lab: 5-30

1.1

BUS 279 -**Principles of Finance** IAI: None

1.2 Principles of Finance is an introduction of financial techniques used in management decisions. The course emphasizes the basic principles of finance including the process. institutions, markets, and instruments involved in the transfer of money among individuals, businesses and governments. Prerequisite: ATG 110 Credit: 3 semester hours Lab: 0

Lecture: 3

BUS 282 -

International Business IAI: None

1.2International Business examines why international business takes place, what advantages accrue to firms operating internationally, what makes international business different from purely domestic operations, and how these operations relate to a country's overall international economic position. Prerequisite: BUS 101 Introduction to Business

Credit: 3 semester hours Lecture: 3 Lab: 0

BUS 295 -**Independent Study in Business** Administration

12

IAI: None

Independent Study in Business Administration is designed for the student who desires to conduct an individual project or research based on personal goals and objectives in an area of special interest in business. Course requirements are based on the nature of the subject under study. A maximum of six semester hours of credit can be earned in this course or a combination of this course and an internship course. This course may be repeated three times. Prerequisite: Enrollment in the general business curriculum, completion of 30 semester hours of credit Rock Valley College and consent of the instructor or Associate Dean.

Credit: 1-6 semester hours Lab. 0 Lecture: 1-6

BUS 296 -**Special Topics in Business** Administration IAI: None

12 Special Topics in Business Administration provides an overview of the many facets involved in managing and organizing today's nonprofit organization. This course will assume a realistic posture of the many and various functions involved in obtaining managerial success in a non-profit organization. Course may be repeated three times. Prerequisite: None Credit: 1-4 semester hours Lecture: 1-4 Lab: 0

BUS 298 -

Global Small Business Incubator -IAI: None

The Global Small Business Incubator is a multidisciplinary capstone course which allows for the real-time application of small business planning, strategic management, accounting, finance, operations, sales, mar-

keting, supply chain management, and international business theory. Students through collaborative action-learning will develop an understanding of management, entrepreneurship, and business practices that are ethically, socially, and globally responsible. Prerequisite: Fifteen (15) credit hours from any of the following disciplines: Business (BUS), Management (MGT), Marketing (MKT), and/or Accounting (ATG). Credit: 3 semester hours Lecture: 2 Lab: 2

CHEMISTRY

Science Division (815) 921-3471

CHM 099 -

Introductory Chemistry (New Course) IAI: None

СНМ

Introductory Chemistry is designed for the student who has not had high school chemistry or who wishes a basic review of high school chemistry. The course provides an introduction to the concepts, principles and calculations of general inorganic chemistry. The intent of this course is to ensure a more seamless and successful transition to a transferable college-level chemistry course. Credit for CHM 099 will not be counted toward graduation. Prerequisite: MTH 092 Beginning Algebra Part II, or equivalent with a grade of "C" or better Credit: 3 semester hours Lab: 2 Lecture: 2

CHM 105 -Foundations in Chemistry for Non-Science Maiors (New Course) (IAI Approval Pending) IAI: P1 903L 1.1

Foundations in Chemistry for Non-science Majors is designed for a student pursuing a non-science associates degree and is seeking a chemistry course to satisfy the Physical Science General Education requirements for an Associates in Arts (AA) degree. This course provides a broad background in general chemical principles and examines the influence of chemistry on society through studies on topical subject areas in chemistry such as energy, environmental or health issues. This course is not intended for science or engineering majors. Credit will not be counted toward graduation if you also complete General Chemistry I (CHM 120). Recent high school chemistry or CHM 099 within the last five years is highly recommended before taking this course. Prerequisite: High school chemistry

with a grade of "C" or better (recommended); MTH 094 (Intermediate Algebra, Part II) or equivalent with a grade of "C" or better. Credit: 4 semester hours Lecture: 3

Lab: 3

CHM 110 -General, Organic and **Biochemistry I (New Course)** (IAI Approval Pending) IAI: P1 902L

General, Organic and Biochemistry I is designed for the Allied Health students who require introductory organic chemistry as part of their Program of Study. This course is the first semester of a two-semester sequence, and provides an introduction to the principles and fundamentals of general chemistry upon which organic chemistry is based. Topics covered include measurements; states, compositions, and properties of matter; atomic structure and chemical bonding; chemical reactions, chemical equations and calculations of formula mass and moles; solutions; acid-base equilibria and nuclear chemistry. This course will satisfy the General Education Physical Science requirement for an Associates in Arts (AA) degree. Prerequisite: CHM 099 or high school chemistry (recently taken) with a grade of "C" or better; MTH 094 (Intermediate Algebra PartII) or equivalent with a grade of "C" or better Credit: 4 semester hours Lecture: 3 Lab: 3

CHM 120 -**General Chemistry I** (Formerly CHM 101)

IAI: P1 902L, CHM 911. 11 General Chemistry I is the first semester of a college-level two-semester sequence in the study of the fundamental principles and concepts of chemistry with emphasis on such topics as stoichiometry; atomic structure; chemical periodicity; chemical bonding and structure; chemical reactions; solids; liquids; gases; acids, bases, and salts, and thermochemistry. CHM 120 is generally required for science majors and engineers, and satisfies part of the General Education Physical Science requirement for an Associates in Science (AS) degree. Prerequisite: Sufficiently comprehensive high school chemistry course (recently taken), or with a grade of "C" or better; MTH 120 (College Algebra) or equivalent with a grade of "C" or better. Credit: 4 semester hours Lecture: 3 Lab: 3

CHM 130 -**General Chemistry II** (Formerly CHM 102)

11

IAI · CHM 912 General Chemistry II is the second semester continuation of CHM 120 with emphasis on such topics as intermolecular forces, solutions, kinetics, chemical equilibrium, acid-base theories, thermodynamics, electrochemistry, oxidation-reduction chemistry, coordination chemistry and nuclear chemistry. Laboratory time is devoted to experiments illustrating the above topics and qualitative analysis of selected cations and anions. CHM 130 is generally required for science majors and engineers, and is a prerequisite for Organic Chemistry I (CHM 220). Prerequisite: General Chemistry I (CHM

120) with a grade of "C" or better Credit: 4 semester hours Lecture: 3 Lab: 3

99

CHM 210 -General, Organic and Biochemistry II (New Course) (IAI Approval Pending) IAI: P1 904L 1.1

General, Organic and Biochemistry II is the second semester continuation of CHM 110. and focuses on the organic and biochemical nature of compounds. Topics include organic nomenclature, structure, physical properties, reactions and synthesis of major organic functional groups. In addition, this course provides an introduction to biochemical topics such as carbohydrates, lipids, proteins, nucleic acids and their subsequent metabolism. This course may be a requirement for some Allied Health programs. Prerequisite: General Organic and

Biochemistry I (CHM 110) with a grade of "C" or better Credit: 4 semester hours Lab: 3 Lecture: 3

CHM 220 -**Organic Chemistry I** IAI: CHM 913.

1.1 Organic Chemistry I is designed for science majors and pre-professional students. It presents the chemistry of alkanes, alkyl halides, cycloalkanes, and unsaturated hydrocarbons, including conjugated and aromatic systems, with emphasis on preparation, reactions, stereochemistry and reaction mechanisms of these and related compounds Laboratory emphasizes basic techniques used in synthesis and qualitative analysis of organic compounds.

Prerequisite: General Chemistry II (CHM 130) with a grade of "C" or better Credit: 4 semester hours Lecture: 3 Lab: 4

CHM 230 -**Organic Chemistry II (Formerly** CHM 221)

IAI: CHM 914 11 Organic Chemistry II is a continuation of CHM 220 and is designed for science majors and pre-professional students. It emphasizes the study of the chemistry of the fundamental organic functional groups such as alcohols, carbonyl compounds, ethers, carboxylic acids and their derivatives, amines, and phenols and carbohydrates. This study includes spectroscopy, methods of preparation and reactions and reaction mechanisms of these and related compounds. Laboratory emphasizes basic techniques used in synthesis and qualitative analysis, including some instrumentation. Prerequisite: Organic Chemistry I (CHM 220) with a grade of "C" or better Credit: 4 semester hours Lab: 4 Lecture: 3

CHILD CARE AND DEVELOPMENT CHD

Liberal Arts Division (815) 921-3338

CHD 100 -

The Child Care Worker IAI: None

1.2 The Child Care Worker develops an understanding of the child care worker in relation to guiding the young child. Methods of analyzing programs and possible solutions are investigated as they relate to human behavior. A weekly two-hour field assignment is required. Prerequisite: None

Credit: 3 semester hours Lecture: 3

CHD 101 -The Developing Child IAI: None

The Developing Child is an overview of the physical-motor, emotional, social and cognitive growth processes from the prenatal period through adolescence. This course is a prerequisite for all upper level child care courses. Prerequisite: None Credit: 5 semester hours

Lecture: 5

CHD 103 -**Nutrition and Health of** the Young Child

IAI: None 1.2 Nutrition and Health of the Young Child includes the study of basic human nutrition, the nutritional value of food, relationship of food and food habits to nutrition, relationship of nutrition to biological development, safety, health and sanitary practices, regulations and agencies. (Offered fall semester.) Prerequisite: Credit or concurrent registration in CHD 101. Credit: 2 semester hours Lab: 0

Lecture: 2

CHD 104 -Large Muscle Development IAI: None

1.2 Large Muscle Development provides an opportunity to plan and implement appropriate physical activities both indoors and outdoors for young children. (Offered spring semester.) Prerequisite: Credit or concurrent regis-

tration in CHD 101. Credit: 2 semester hours Lecture: 2 Lab: 0

CHD 105 -**Developing Techniques for** Working with the Young Child IAI: None

Developing Techniques for Working with the Young Child includes weekly participation experiences with groups of young children. Emphasis is on the child care worker's role in relation to young children. Weekly seminars will include discussion of guidance principles and techniques applied to children in group situations, leading toward the development of a personal philosophy of child guidance. A weekly five-hour field assignment is required. Prerequisite: CHD 101 Credit: 3 semesters hours Lecture: 2 Lab: 5

CHD 106 -**Music for the Young Child** IAI: None

12 Music for the Young Child will include a survey of the types of musical interests of young children, and a collection of songs and musical experiences for young children will be developed. Emphasis is given to methods which will encourage musical participation by the children. Weekly field assignments are required. (Offered fall semester.) Prerequisite: Credit or concurrent registration in CHD 101. Credit: 3 semesters hours Lecture: 3 Lab: 0

CHD 107 -

Lab: 0

1.2

Lab: 0

1.2

Science for the Young Child IAI: None

1.2

Lab: 0

Science for the Young Child will focus on methods and planning activities for science with young children and will emphasize the guided exploration and experimentation of children in their world. Weekly field assignments are required. (Offered spring semester.) Prerequisite: Credit or concurrent registration in CHD 101 Credit: 2 semesters hours Lecture: 2 Lab: 0

CHD 108 -

Art for the Young Child IAI: None

1.2Art for the Young Child introduces a wide variety of art media and activities suitable for use with young children with an emphasis on the value and importance of these enriching creative art experiences. Weekly field assignments are required. (Offered spring semester.) Prerequisite: Credit or concurrent registration in CHD 101. Credit: 3 semesters hours

Lecture: 3

CHD 201 -Language Development IAI: None

12 Language Development will focus on the structure and function of children's language, developmental process of language and its interrelationship and dependency upon other growth processes. Weekly field assignments are required. (Offered fall semester.) Prerequisite: Credit or concurrent reaistration in CHD 101. Credit: 3 semesters hours Lecture: 3 Lab: 0

CHD 202 -**Family-Community Relationships** and Resources

IAI: None 12 Family Community Relationships and Resources focuses on the child's understanding of his or her world as an individual and as a member of a larger community, and his or her relationship to it. Emphasis is on communication with parents, community leaders and resource people, and their influence on the child's development. Students are required to search out the resources of the community and compile an annotated list of the community resources. (Offered spring semester.) Prerequisite: CHD 101 Credit: 3 semesters hours Lab: 0 Lecture: 3

CHD 203 -**Curriculum Planning for** the Young Child

1.2 IAI: None Curriculum Planning for the Young Child is designed to enable the student to do total planning for children in a child care setting. Emphasis is on the importance of play and desirable space facilities. (Offered fall semester.) Prerequisite: CHD 101 and two of the

following: CHD 103, 104, 106, 107, 108, 201 or 206. Credit: 3 semesters hours Lab: 0 Lecture: 3

CHD 204 -Internship - Child Care IAI: None

12 Internship in Child Care provides an opportunity to plan and direct learning activities in a child care facility under supervision. Emphasis is on understanding the role as a member of a teaching team working with children. Weekly seminars, two individual conferences, and written assignments will be required.

Prerequisite: Credit in all CHD courses except 202 and 205. Credit: 4 semesters hours Lecture: 1 Lab: 15

CHD 205 -**Organization and Supervision of Early Childhood Facilities** IAI: None

1.2 Organization and Supervision of Early Childhood Facilities provides study in the supervisory responsibilities involved in the administration of an early childhood facility. It also includes program planning and implementation, supervision principles, staff management, budget preparation, record keeping and evaluation procedures, governmental licensing and regulatory agencies. (Offered spring semester.) Prerequisite: CHD 101 Credit: 3 semesters hours Lecture: 3 Lab: 0

CHD 206 -Mathematics for the Young Child IAI: None 12

Mathematics for the Young Child includes planning and implementation of appropriate mathematical activities for young children. Field assignments will be required. (Offered fall semester.) Prerequisite: Credit or concurrent registration in CHD 101.

Credit: 2 semesters hours

Lab. 0 Lecture: 2

CHD 207 -**Special Topics in Child** Development

IAI: None 1.2 Special Topics in Child Development provides special instruction in the application of child care and development principles and skills to preschool and/or day-care situations. This course will be designed for the individual needs of child care majors. A maximum of four credits may be earned in this course. Prerequisite: None Credit: 1-4 semesters hours

Lecture: 1-4 Lab: 0

CHD 250 -**Independent Study in Child Care** and Development

IAI: None 12 Independent Study in Child Care and Development is designed for the student who desires to conduct an individual project or research in an area of special interest based on personal goals and objectives. Course requirements are based on the nature of the subject under study. Repeat of this course for a total of three credits is permissible

Prerequisite: Enrollment in the Child Care and Development curriculum and consent of instructor or program coordinator

Credit: 1-3 semesters hours Lecture: 1-3 Lab: 0

COMMUNICATION

- See Speech

COMPOSITION

– See English

COMPUTERS AND INFORMATION CIS **SYSTEMS**

Division of Business/Computers and Information Systems (815) 921-3101

CIS 102 -

Introduction to Computers and Information Systems IAI: None

12 Introduction to Computers and Information Systems surveys the uses of computers in business, industry and the home. This course introduces computer concepts, principles, and terminology. A number of hands-on computer experiences are provided, including using word processors, spreadsheets and database software. Credit will not be given for both CIS 102 and CIS 202. Prerequisite: None Credit: 3 semester hours Lecture: 3

Lab: 0

CIS 117 -Windows Command Line Programming

12 IAI: None Windows/DOS Command Line Programming is a hands-on approach to operating personal computers. An overview of the microcomputer system will be covered including the keyboard, monitor, system unit, printers, and auxiliary storage. Hands-on practice will be emphasized with a considerable portion of the course taking place at the computer. No previous knowledge of computers is required. Prerequisite: Keyboard proficiency Credit: 2 semester hours Lecture: 2 Lab: 0

CIS 120 -

Introduction to Microsoft Word IAI: None 12

Introduction to Microsoft Word will present the basics of word processing along with such features as creating, formatting, editing, saving, and printing a document. The techniques required for changing fonts and point sizes, setting and deleting tabs, creating headers, footers, footnotes, and using editing tools such as the spell checker will be taught. Prerequisite: Keyboard proficiency or equivalent experience. Credit: 1 semester hour Lecture: 1 Lab: 0

CIS 121 -

Introduction to Excel IAI · None 12 Introduction to Excel will demonstrate the use of basic topics including spreadsheet design, formulas, functions, and graphing. The use of this package will be presented in a business problem-solving setting. Prerequisite: Keyboard proficiency or equivalent experience. Credit: 1 semester hour Lecture: 1

Lab: 0

CIS 124 -Introduction to PowerPoint IAI: None

1.2 Introduction to PowerPoint will present the basics needed to create, edit, and enhance presentations. Drawings, clip art, color schemes, charts, and text will be used to teach the creation of notes, handouts, outlines, and presentation slides. Prerequisite: Keyboard proficiency or equivalent experience. Credit: 1 semester hour Lab: 0

Lecture: 1

CIS 130 -

Introduction to Access

IAI: None

Introduction to Access is designed to teach the student the features available in Microsoft Access. The topics of creating a database, storing, sorting, and retrieving data, and querving a database will be covered. The student will learn about database management as well as the creation of forms, reports, and labels for information presentation.

1.2

1.2

Prerequisite: Keyboard proficiency Credit: 2 semester hours Lecture: 2 Lab: 0

CIS 180 -**Introduction to Visual Basic Programming**

12 IAI None Introduction to Visual Basic Programming is an introductory course that is designed for students and professionals with little or no Visual Basic or Windows programming experience. The student will learn the BASIC language syntax, event-driven programming, and how to put together a complete Visual Basic Application. Topics such as Windows programming standards and conventions, database programming, array processing, controls, properties, methods and events will be discussed. Prerequisite or Corequisite: CIS 102 Credit: 4 semester hours Lecture: 3 Lab: 2

CIS 181 -**Advanced Visual Basic** Programming

IAI: None

CIS 181, along with CIS 184, covers topics useful in preparing to take the Microsoft Certification examination in VB NET It builds on topics introduced in CIS 180, such as OOP concepts related to the functionality of .NET, as well as collections, arrays and database programming; and introduces additional controls useful for Windows programming. CIS 181 also teaches students how to create user-defined classes, how to program using the Windows file system, how to create MDI applications and how to deploy desktop applications. Prerequisite: CIS 180 Credit: 4 semester hours Lecture: 3 Lab: 2

CIS 182 -**Programming Visual Basic** for Applications

IAI: None 12 Programming Visual Basic for Applications is a course designed for experienced programmers and CIS majors interested in Visual Basic programming throughout the Microsoft Office Suite. Areas of study will include Word, Excel, Access, and PowerPoint. Students will be encouraged to create a project related to their own job/interests to incorporate design principles and VBA Prerequisite: PCI 106 and PCI 206 or CIS 130 Credit: 4 semester hours Lecture: 3 Lab: 2

CIS 184 -Visual Basic Programming III

1.2 IAI: None CIS 184 along with CIS 181 covers topics useful in preparing for the Microsoft Certification examination in VB.NET. This course builds on topics introduced in CIS 181, such as OOP concepts related to the functionality of .NET, as well as database programming. Additionally, it includes userdefined controls, drawing and the use of graphics with .NET, plus topics related to web applications and deployment of web applications. Prerequisite: CIS 181 Credit: 4 semester hours Lecture: 3 Lab: 2

CIS 202 -

Introduction to Business Computer Systems

IAI: BUS 902 1.1 Introduction to Business Computer Systems is a course for business majors planning to transfer to a four-year institution. Computer equipment, programming and applications are surveyed. Topics include the meaning and function of hardware, software, data procedures and personnel in a business computer system and includes basic systems analysis and design techniques, file processing, internet access methods, and database concepts. The student will use representative business application software including spreadsheets, database and word processing. Credit will not be given for both CIS 102 and CIS 202. Prerequisite: None Credit: 3 semester hours Lab: 0 Lecture: 3

CIS 240 -Introduction to JAVA Programming

IAI: None Introduction to Java Programming is a course designed to introduce the student to Java software development. Students will write platform-independent, object-oriented code for conventional applications and for Internet- and Intranet-based applets. Topics covered may include fundamental programming principles, concepts and practices; console user interfaces (CUI) and graphical user interfaces (GUI); multimedia (images,

animation, and audio); object oriented programming, arrays, basic containers, text processing, inheritance, polymorphism, exception processing, and recursion. A number of programming assignments will be given to enable the student to build real-world Java applications.

Lah. 2

Prerequisite: CIS 102 Recommended: CIS 276 Credit: 4 semester hours Lecture: 3

CIS 241-

Advanced Java Programming

12 IAI: CS 912 The second in a sequence of Java programming courses. Covers OOPs design and implementation of advanced Java programming: abstract data types, inheritance polymorphism, dynamic binding, abstract classes, interfaces; data structures (files, sets, heaps, lists, stacks, queues, trees, graphs); recursion. String and text programming; searching and sorting algorithms; JDBC database programming; GUI programming; concurrency and networking; and Web programming. Students should complete BOTH CIS 240 and CIS 241 at RVC before transferring to a four-year degree granting school. Prerequisite: CIS 240 Credit: 4 semester hours Lecture: 3 Lab: 2

CIS 251 -

Systems Analysis and Design 12 IAI: None

Systems Analysis and Design is a study of the phases of systems development and the tools the analyst uses in planning, specifying and implementing a system to solve managerial and organizational problems. Other topics may include documentation, interaction with users, systems security, and an introduction to a CASE tool. Prerequisite: A one semester programming course or equivalent programming experience.

Credit: 3 semester hours Lecture: 3

CIS 254 -

Database Programming IAI: None

1.2

Lab: 0

Database Programming introduces the student to the concept of database processing. Physical representation, modeling and commercial systems are covered. Each student. will have the opportunity to write programs using desktop, workstation and server software. Client/server applications will be presented. The course will use a modern database system such as Oracle or MS SQL. Prerequisite: CIS 180 or CIS 276 Credit: 4 semester hours Lecture: 3

Lah. 2

CIS 276 -

Introduction to C/C++ Programming IAI: CS 911

Introduction to C/C++ Programming provides the student with an introduction to programming using the C/C++ programming language. This course is suitable for students with little or no programming background. C/C++ is an object-oriented programming language that will be used in this course to teach control structures. sequence, selection, iteration, to teach structured program design, programming style, documentation, modular design, code reusability, and program testing. Prerequisite or Corequisite: CIS 102, or consent of instructor. Credit: 4 semester hours Lab: 2 Lecture: 3

CIS 277 -

Advanced C/C++ Programming IAI: CS 912

12

1.2

Advanced C/C++ Programming is a continuation of CIS 276 – Introduction to C/C++ Programming. This course emphasizes the concepts, principles and practices of objectoriented programming and of data structures. Typical topics include classes, data abstraction, encapsulation, inheritance, polymorphism, information hiding, software reusability, overloading, vectors, lists, queue, stacks and STL. Prerequisite: CIS 276 Credit: 4 semester hours Lecture: 3 Lab: 2

CIS 279 -

Visual C/C++ Programming IAI: None

Visual C/C++ Programming is an extension of CIS 276 Introduction to C/C++ Programming and CIS 277 Advanced C/C++ Programming. This course emphasizes event-driven programming, usually in a GUI environment. Typical topics include design principles and practices, object-oriented and procedural development, GUI design and implementation, data files and database connectivity, subclassing, graphical resources, software project management, multithreading and multitasking. Prerequisite: CIS 276 or equivalent programming experience. Recommended: CIS 277 or equivalent programming experience. Credit: 4 semester hours Lah· 2 Lecture: 3

CIS 290 -**Special Topics in Computers and Information Systems** IAI: None

1.2 Special Topics in Computers and Information Systems is a study of advanced topics in computer science. The student will study selected topics of current practices in computer information and support systems for business and industry. Students will also participate in one or more projects involving the project life cycle: analysis, design, coding, testing/debugging, imple-

mentation, and maintenance. Programming may be required. Exact course requirements are based on the nature of the topics under study.

Prerequisite: Consult the RVC class schedule for the current semester to determine prerequisites and other requirements. Credit: 1-6 semester hours Lecture: 1-6

Lab: 1-6

CIS 291 -Internship – Field Project IAI: None

12 Internship - Field Project requires individual assignments at Rock Valley College or in a carefully selected local data processing installation. The primary purpose of this course is to give the student an in-depth study of a practical data processing application or subject.

Prerequisite: Successful completion of a sufficient number of courses to permit the student to perform a useful service to the host company; active pursuit of a Computers and Information Systems degree program; permit slip signed by division Associate Dean. This course may be repeated to a maximum of six credits. Credit: 1-6 semester hours Lecture: 0 Lab: 1-6

CRIMINAL JUSTICE CRM

Division of Allied Health and Human Services (815) 921-3200

CRM 101 -

Introduction to Law Enforcement IAI: None

Introduction to Law Enforcement is open to all students and covers philosophy and history of law enforcement; crime and police problems; organization and jurisdiction of local, state, and federal law enforcement agencies; and a survey of professional career opportunities and their corresponding required qualifications. Prerequisite: None Credit: 3 semester hours Lab: 0 Lecture: 3

CRM 102 -

Introduction to Probation and Parole

IAI: None 1.2 Introduction to Probation and Parole is designed to acquaint the student with the functions, procedures and objectives of probation and parole systems. Emphasis will be placed on developing the students' understanding of the role of probation and parole in the criminal justice system. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

CRM 103 -Introduction to Corrections

IAI: CRJ 911 12 Introduction to Corrections provides for the opportunity to study the history of corrections in society, as well as the philosophical goals of the corrections system as a means to deter crime. The course will also focus on contemporary issues in the field of corrections, including such topics as jail standards and the application of the Americans with Disabilities Act in the jail/prison systems. Prerequisite: None Credit: 3 semester hours Lecture: 3

Lab. 0

CRM 104 -

Introduction to Private Security 19 IAI: None

Introduction to Private Security is designed as an introductory overview of the field, for either supervisors or security officers. The general emphasis of this course is in the areas of personnel and property conservation. Areas covered will include legal boundaries, human relations, interviews and interrogation, accident prevention, fire hazards, and traffic control. The role of "loss prevention officers" will also be discussed. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

CRM 105 -

Police Report Writing IAI: None

1.2

12

Police Report Writing includes specialized training for law enforcement and private security personnel. The course includes a review of basic vocabulary, grammar and written organization skills. Thereafter, the course will center on the methods of writing reports in various components of the criminal justice system; emphasis will be on law enforcement narrative report writing. Students will use the field notes, forms, and narrative and description procedures of area law enforcement agencies. Prerequisite: ENG 101 Credit: 3 semester hours Lecture: 3 Lab: 0

CRM 120 -**Criminal Investigation**

IAI: None

Criminal Investigation covers the basics of criminal investigation, including crime scene search and recording; collection and preservation of physical evidence; scientific aids; sources of information; interviews and interrogations; follow-up investigations and case preparation. Prerequisite: None Credit: 3 semester hours Lab. 0 Lecture: 3

CRM 125 -Criminal Procedure and Civil Rights IAI: None 1.2

Criminal Procedure and Civil Rights covers the rights and privileges of individuals and groups. The emphasis is on current decisions, which govern the actions of law enforcement officers. *Prerequisite: None*

Credit: 3 semester hours Lecture: 3 Lab: 0

CRM 127 -Ethics in Law Enforcement

IAI: None 1.2 Ethics in Law Enforcement will introduce the student to the ethical principles that apply to those entering law enforcement and related career paths. Specific examples of police corruption in the United States will be examined. Students will be exposed to contemporary ethical standards, which govern the conduct of individuals entering these fields. *Prerequisite: None Credit: 3 semester hours*

Lecture: 3 Lab: 0

CRM 210 -

Criminal Law IAI: None

IAI: None1.1Criminal Law covers the reasons for criminallaws; their source and function in today's soci-ety. The course then focuses on the structure,definitions, and most frequently used sec-tions of the penal code and other criminalstatutes. Additionally, the course will studycriminal law as it pertains to local jurisdic-tions. The classifications of crimes and thenature of crimes will also be discussed.Prerequisite: NoneCredit: 3 semester hoursLecture: 3Lab: 0

CRM 225 -Juvenile Procedures IAI: None

 IAI: None
 1.2

 Juvenile Procedures covers the position law
 enforcement agencies have in juvenile and

 delinquency control, organization and functions of related juvenile agencies, the laws
 governing the handling of juvenile offenders,

 and the application of those laws. Also included is a brief resume of the juvenile court and its jurisdiction.
 Prerequisite: None

 Credit: 3 semester hours
 Lecture: 3
 Lab: 0

CRM 260 -Police Organization and Administration

IAI: None 1.2 Police Organization and Administration is designed to give students a knowledge of the principles and practice involved in the organization and administration of law enforcement agencies. Special emphasis will be on management, planning, problems in division of work assignments, specialization, internal communication and budgeting. *Prerequisite: CRM 101 or consent of instructor.*

Credit: 3 semester hours Lecture: 3 Lab: 0

104

CRM 271 -Patrol Procedures IAI: None

 IAI: None
 1.2

 Patrol Procedures will expose students to
 the patrol function of law enforcement.

 Emphasis will be placed on the techniques
 and procedures necessary to successfully

 investigate such incidents as crashes,
 domestic disputes, high-risk vehicle stops

 and other law enforcement calls for service.
 Prerequisite: None

 Credit: 3 semester hours
 Lecture: 3

 Lecture: 3
 Lab: 0

CRM	281	-	
Rules	of	Evi	d

Rules of Evidence

Rules of Evidence covers the importance of evidence collected and preserved by law enforcement officers. Subjects such as judicial evidence, proof, laws of evidence, degree of certainty, kinds and types of evidence, relevancy and irrelevancy, materiality and immateriality, competency and incompetency will be covered. The course also covers the admissibility of evidence and confessions. *Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab 0*

CRM 282 -**Interviews and Interrogations** IAI: None 12 Interviews and Interrogations is designed to help the student understand the purpose and importance of proper interviews/interrogations as well as the methods of interviewing/interrogating. Assessment of the verbal and non-verbal communication in the interview/interrogation process will be stressed. Students will learn the philosophy of interviews and interrogations, how to compose and ask questions, and what to avoid in interviews and interrogations. Prerequisite: CRM 101 or consent of instructor

Credit: 3 semester hours Lecture: 3 Lab: 0

CRM 283 -Special Topics in Police Science IAI: None 1

 IAI: None
 1.2

 Special Topics in Police Science is designed to meet the needs or interests of the prospective police applicant as well as the veteran officer. Course requirements are based on the topics under study. This course may be repeated three times. Prerequisite: None

 Credit: 1-4 semester hours

 Lecture: 1-4

CRM 291 -Internship

IAI: None

Internship provides for observation and limited participation in law enforcement or related agencies. Consent of program coordinator and agency is required. Seventy-five hours of internship is required for each hour of credit. *Prerequisite: Successful completion of 12 credits in the criminal justice curriculum. May be repeated for a total of six credits maximum. (Repeatable three times.) Credit: 1-6 semester hours Lecture: 1 Lab: 5-30* DENTAL HYGIENE DNT

Division of Allied Health and Human Services (815) 921-3235

DNT 102 -

Preventive Dental Hygiene IAI: None 1.2 Preventive Dental Hygiene provides an introduction to the causes and prevention of the two most common dental diseases.

introduction to the causes and prevention of the two most common dental diseases: dental caries and periodontal disease. Students learn to assess client needs and to provide education that will help the client to maintain or enhance oral health. *Prerequisite: BIO 281, CHM 110/210, ENG 101, 103, and admission into the Dental Hygiene program. Corequisite: DNT 104, 106, 108, 110 Credit: 1 semester hour Lecture: 1 Lab: 0*

DNT 104 -

1.2

Dental Anatomy, Histology, and Embryology

 IAI: None
 1.2

 Dental Anatomy, Histology and Embryology
 introduces the students to terminology relating to anatomic structures of the oral cavity.

 Special emphasis is placed on the teeth and root morphology of both primary and permanent teeth and occlusal classification.
 Prerequisite: BIO 281, CHM 110/210.

 ENG 101, 103, and admission into the Dental Hygiene program.
 Corequisite: DNT 102, 106, 108, 110

 Credit: 3 semester hours
 Lecture: 3

DNT 106 -

Head and Neck Anatomy

IAI: None 1.2 Head and Neck Anatomy will provide the students with an introduction to human histology and orofacial embryology. The course includes special emphasis of the anatomy of the tissues of the oral cavity, head and neck, with detailed study of the skeletal, muscular, glandular, circulatory, nervous and epithelial structures. Prerequisite: BIO 281, CHM 110/210. ENG 101, 103, and admission into the Dental Hygiene program. Corequisite: DNT 102, 104, 108, 110 Credit: 3 semester hours Lab: 0 Lecture: 3

DNT 108 -

1.2

Preclinical Dental HygieneIAI: None1.2Preclinical Dental Hygiene provides studentswith the scientific principles of dentalhygiene practice with emphasis on datacollection, client assessment, oral healtheducation, and basic instrumentation.Practice of infection control standards andregulations are an integral component.Prerequisite: BIO 281, or CHM 110/210,

ENG 101, 103, and admission into the Dental Hygiene program. Corequisite: DNT 102, 104, 106, 110, BIO 282

Credit: 4 semester hours Lecture: 2

DNT 110 -**Nutrition and Biochemistry** IAI: None

1.2 Nutrition and Biochemistry will provide the student with an understanding of how to apply sound nutrition principles in assessing, diagnosing, planning, implementing, and evaluating total care of clients, and to help the student contribute to the nutritional well-being of clients. Prerequisite: BIO 281, CHM 110/210, ENG 101, 103, and admission into the Dental Hygiene program. Corequisite: DNT 102, 104, 106, 108 Credit: 2 semester hours Lecture: 2 Lab: 0

DNT 112 -**Clinical Dental Hygiene I**

IAI: None

Clinical Dental Hygiene I parallels DNT 113, Dental Hygiene Theory I. This course is a continuation of DNT 108, Preclinical Dental Hygiene. The course will provide clinical practice in fundamental dental hygiene instrumentation skills on community clients. This course emphasizes client assessment, application of dental hygiene care techniques, instrumentation, oral health products, client motivation and education techniques, and dental hygiene care planning

Prerequisite: DNT 102, 104, 106, 108, 110

Corequisite: DNT 113, 114, 116, 118, 120 Credit: 2 semester hours Lecture: 0 Lab: 8

DNT 113 -**Dental Hygiene Theory I** IAI: None

1.2 Dental Hygiene Theory I parallels DNT 112 Clinical Dental Hygiene I. Emphasis will be on the Dental Hygiene process of care and management of clients. Topics include desensitizing agents, ultrasonics, air polishers, intra-oral cameras, instrument sharpening, stains and polishing. Lab time will allow students to practice these skills in order to prepare for their clinical application.

Prerequisite: DNT 102, 104, 106, 108, 110 Corequisite: DNT 112, 114, 116, 118, 120 Credit: 2 semester hours Lecture: 1 Lab: 2

DNT 114 -

General and Oral Pathology IAI: None

General and Oral Pathology provides students with an introduction to the role of the dental hygienist in identifying and describing abnormal oral findings. The course focus is on the fundamentals of the general and oral pathological processes to better prepare the student to provide optimal oral healthcare.

Prerequisite: DNT 102, 104, 106, 108, 110, BIO 282

Corequisite: DNT 112, 113, 116, 118, 120 Credit: 3 semester hours Lab: 0 Lecture: 3

DNT 116 -Dental Radiology IAI: None

1.2 Dental Radiology will provide the student with the theory and procedures for exposing and developing various dental films. Theory of the effects of ionizing radiation and safety factors will be addressed. Practical experience on manikins and selected clients is included. Development, identification, mounting and general interpretation is emphasized. Prerequisite: DNT 102, 104, 106, 108,

110, BIO 282 Corequisite: DNT 112, 113, 114, 118, 120

Credit: 3 semester hours Lecture: 2 Lab: 3

1.2

12

DNT 118 -Dental Pharmacology

IAI: None

1.2

Dental Pharmacology provides the student with knowledge of current drugs, including their pharmacologic effects, adverse reactions, indications and contraindications as they relate to patient medical history and dental hygiene treatment. The course also focuses on the fundamental pharmaceutical concepts of local anesthetic. Prerequisite: DNT 102, 104, 106, 108, 110 BIO 282 Corequisite: DNT 112, 113, 114, 116, 120

Credit: 2 semester hours Lecture 2 Lab. 0

DNT 120 -

Introduction to Periodontics I 12 IAI · None

Introduction to Periodontics I will introduce the student to the fundamental theories of periodontics. The course reviews basic histology, etiology, clinical features, and treatment of periodontal infections; emphasizes diagnosis, treatment planning and management of periodontal patients. Prerequisite: DNT 102, 104, 106, 108, 110. Bio 282

Corequisite: DNT 112, 113, 114, 116, 118 Credit: 2 semester hours Lab: 0 Lecture: 2

DNT 210 -Dental Materials

IAI: None

1.2

Dental Materials provides an introduction to the use of dental materials used in the practice of dentistry. It will include the manipulation of materials to increase the knowledge of dental materials and to prepare the student for clinical procedures to be performed on patients. Prerequisite: DNT 112, 113, 114, 116, 118, 120 Corequisite: DNT 212, 213 Credit: 3 semester hours Lecture: 2 Lab: 3

DNT 212 -**Clinical Interim**

IAI: None 1.2 Clinical Interim provides the continuation of clinical practice and management in oral prophylaxis on the child, young adult and adult clients applying consistent infection control and client assessment and analysis. Preventive techniques and exposing of radiographs is also included. Prerequisite: DNT 112, 113, 114, 116, 118. 120

Corequisite: DNT 210, 213 Credit: 2 semester hours Lecture: 0

Lab. 6

DNT 213 -**Introduction to Dental Hygiene** Research

IAI: None 12 Introduction to Dental Hygiene Research provides the fundamental skills to review and interpret dental scientific literature. The course includes an introduction to research methodologies and statistical analysis, and includes research on the Internet.

Prerequisite: DNT 112, 113, 114, 116, 118, 120 Corequisite: DNT 210, 212 Credit: 1 semester hour

Lecture: 1

DNT 214 -**Periodontics II**

IAI: None

Lab: 0

1.2

Periodontics II is a continuation of DNT 120 Course content includes additional knowledge required to diagnose and treat periodontal diseases, clinical management of the periodontium and adjunctive therapies relevant to the maintenance of periodontal health. Emphasis is placed on the differential diagnosis and treatment of periodontal disease. Surgical and post-surgical topics will also be covered in the course. Prerequisite: DNT 210, 212, 213 Corequisite: DNT 215, 216, 217, 218, 220 Credit: 2 semester hours Lab: 0 Lecture: 2

DNT 215 -Pain Management in Dental **Hygiene Practice**

12 IAI: None Pain Management in Dental Hygiene Practice will enable the student to perform comprehensive dental hygiene treatment utilizing pain control techniques including intraoral local anesthesia and nitrous oxide/oxygen sedation. Emphasis will be placed on concepts that are essential for safe and effective administration, including neurophysiology, pharmacology, administration techniques, and the management of potential complications associated with local anesthesia administration and nitrous oxide/oxygen sedation. Prerequisite: DNT 210, 212, 213 Corequisite: DNT 214, 216, 217, 218, 220 Credit: 3 semester hours Lecture: 2 Lab: 2

105

DNT 216 -Clinical Dental Hygiene II IAI: None

IAI: None 1.2 Clinical Dental Hygiene II is a continuation of DNT 112, 212 and coincides with course DNT 217. The course will provide clinical practice and management in oral prophylaxis on the adult and periodontally involved client. Periodontal and preventive techniques and exposing of radiographs are also included. *Prerequisite: DNT 210, 212, 213* Current PDP 2016, 212, 213

 Corequisite: DNT 214, 215, 217, 218, 220

 Credit: 4 semester hours

 Lecture: 0
 Lab: 12

DNT 217 -Dental Hygiene Theory II

IAI: None 1.2 Dental Hygiene Theory II parallels DNT 216 Clinical Dental Hygiene II. Topics include desensitizing agents, ultrasonics, air polishers, intra-oral cameras, and emergencies that may occur in the dental setting. In-depth discussion of these concepts and apolication of these skills will be prac-

ticed in order to prepare the student for clinical experiences. Prerequisite: DNT 210, 212, 213 Corequisite: DNT 214, 215, 216, 218, 220 Credit: 1 semester hour Lecture: 1 Lab: 0

DNT 218 -

Dental Ethics, Jurisprudence and Practice Management IAI: None 1.2

Dental Ethics, Jurisprudence and Practice Management provides the student with the skills needed for successful clinic practice management. Emphasis is placed on professional relationships and the various roles dental hygienists encounter in the various dental specialties. The course focus also includes ethical and legal obligations by the dental professionals to the community and public it serves. *Prerequisite: DNT 210, 212, 213*

Corequisite: DNT 214, 215, 216, 217, 220 Credit: 2 semester hours Lecture: 2 Lab: 0

DNT 220 -Community Dental Health IAI: None

IAI: None1.2Community Dental Health focuses on the
current concepts of community dental
health, the dental hygienist's role in the
prevention of dental problems, and the
delivery of dental care to society. Students
participate in community programs.
Prerequisite: DNT 210, 212, 213
Corequisite: DNT 214, 215, 216, 217, 218
Credit: 3 semester hours
Lecture: 2Lab: 3

DNT 224 -Clinical Dental Hygiene III IAI: None

IAI: None1.2Clinical Dental Hygiene III provides a con-
tinuation of DNT 216 and coincides with
course DNT 225. This course will provide
clinical practice and management in oral
prophylaxis and periodontal therapy on the
adult patient. Preventive techniques and
exposing of radiographs are also included.
Prerequisite: DNT 214, 215, 216, 217,
218, 220
Corequisite: DNT 225
Credit: 4 semester hours
Lecture: 0Lab: 12

DNT 225 -

Dental Hygiene Theory III IAI: None

Dental Hygiene Theory III provides the student with continued dental hygiene theory and background of DNT 216 and 217 and parallels clinical course DNT 224. Emphasis is placed on advanced instrumentation, medically compromised and special needs clients, and dental specialties. The course also prepares students to transition into the role of a practicing dental hygienist, covering topics such as interviewing, resume writing, conflict resolution, and employer-employee roles. Prerequisite: DNT 214, 215, 216, 217, 218 220 Corequisite: DNT 224 Credit: 2 semester hours Lecture: 2 Lab: 0

DRAMA

– See Theatre, Literature

EARTH SCIENCE

– See Atmospheric Science, Geology, & Physical Geography

ECONOMICS

Liberal Arts Division (815) 921-3317

ECO 101 -

Introduction to Economics IAI: S3 900

This course is a general introduction to the nature and scope of economic analysis and its application to current issues. Topics covered include markets, competition, monopoly, inflation, unemployment and international economics. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

ECO 103 -Contemporary Economic Issues

 IAI: None
 1.1

 This course is an introduction to the application of economic analysis to current economic problems and the consideration of policy alternatives. The economic approach will be applied to such issues as poverty, crime, healthcare, the environment, unemployment and inflation.

 Prerequisite: None
 Credit: 3 semester hours

 Lecture: 3
 Lab: 0

ECO 110 -

12

ECO

11

Principles of Economics: Macro IAI: S3 901 1.1

This course is an introduction to national income determination, its relationship to unemployment, inflation, and economic growth, and public policy alternatives used to achieve national economic goals. *Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0*

ECO 111 -

Principles of Economics: Micro IAI: S3 902 1

This course is an introduction to product and resource pricing under various market conditions, and public policy alternatives for economic efficiency and equity in the marketplace. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

EDUCATION

EDU

Liberal Arts Division (815) 921-3338

EDU 202 -

Children's Literature IAI: None

1.1 Children's Literature is designed to introduce and examine the many genres of children's literature and its uses within a diverse elementary school setting. Students will be introduced to traditional and contemporary children's authors. Students will also consider methods of selecting and evaluating children's books. Group activities and ongoing reading of a variety of children's books is an integral part of this course. This course is designed for students entering the teaching profession and for individuals with an interest in this area. Prerequisite: None Credit: 3 semester hours Lab: 0 Lecture: 3

EDU 204 -**Introduction to Teaching Reading**

for Elementary School Teachers IAI: None 1 1

This introductory course is designed to provide prospective teachers with a basic understanding of the reading process. This course introduces prospective teachers to various reading theories, trends in assessment and an array of instructional strategies for teaching reading in the elementary classroom. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

EDU 224 -Introduction to Education IAI: None

Introduction to Education is an overview of the American Educational System as both a professional and public enterprise. Social, historical, and philosophical foundations give perspective to examination of current issues. policies, and trends in the field of education. These include cultural diversity, inclusion, organizations and structures, finance, curriculum and legislative/legal issues. Completion of 15 hours in a classroom setting, accompanied by proper documentation, and initiation of a standards-based portfolio is required for successful completion of this course. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab. 0

EDU 234 -Introduction to Technology for Teachers

IAI: None 1.1 Introduction to Technology for Teachers covers basic technology used in learning in the P-12 classrooms with special emphasis on computer operations and concepts. The application of concepts and skills in making decisions concerning the social, ethical, and human issues related to technology and computing and the consequences of misuse is addressed. Designed for students entering the education profession. Prerequisite: CIS 102 Credit: 3 semester hours Lecture: 2 Lab: 2

EDU 244 -**Students With Disabilities in Schools** IAI: None

Students With Disabilities is a survey course that presents the historical, philosophical and legal foundations of special education, as well as an overview of the characteristics of individuals with disabilities, the programs that serve them under the Individuals With Disabilities Education Act, and the diversity of the populations of individuals with disabilities. Prerequisite: None Credit: 3 semester hours Lab: 0 Lecture: 3

EDU 245 -**Special Education Practicum** IAI: None

Special Education Practicum is an opportunity for students entering education and special education majors to work directly in the local agencies and schools with diverse populations under the supervision of the college. Students are expected to spend 30 hours working with individuals with disabilities in community and/or school settings. Prerequisite or Corequisite: EDU 244 Credit: 1 semester hour Lecture: 0

Lah: 30

11

EDU 274 -

11

Elementary School Practicum IAI · None 11

This course is an opportunity for all elementary or special education majors to work directly in the local schools under the supervision of the college and cooperating teacher. Completion of 50 hours in a classroom setting, accompanied by proper documentation, in addition to other course requirements is necessary for successful completion of this course. This course is required for those who wish to transfer PSY 270 and PSY 271 to Northern Illinois University School of Education. This course serves as the basis for the 100 pre-student teaching observation hours required by the State of Illinois Prerequisite: EDU 224 & PSY 271 Credit: 1 semester hour Lecture: 0 Lab: 2

ELECTRONIC ENGINEERING **TECHNOLOGY**

Division of Engineering and Technology (815) 921-3101

EET 100 -Introduction to Electronics IAI: None

Introduction to Electronics presents a series of lecture demonstrations on electronics theory and practical applications. The course attempts to develop student interest in electronics and provides a general survey of the electronics area of study. Students learn to apply electronics in daily life, perform basic calculations, and develop measurement skills. Laboratory activities include working with a digital multimeter and soldering on a printed circuit board. This is a general survey course for non-electronics majors only. Prerequisite: None Credit: 3 semester hours Lecture: 2 Lab: 2

EET 125 -**Electronic Fabrication Skills** IAI: None

1.2 This laboratory course covers chassis wiring, cable assembly techniques, and proper handling precautions of the materials used in fabrication and repair of electronic equipment. Material Safety Data (MSD) sheets are explained. Proper hand tool usage and safety concepts are emphasized throughout the course Surface Mount Technology projects will be constructed. Designing a Printed Circuit Board using CAD software is also covered. Prerequisite: None Credit: 2 semester hours Lecture: 1 Lab: 3

EET 135 -

Digital Electronics IAI: EGR 932

1.2 Digital Electronics introduces the theory and application of digital logic circuits. Topics include basic combinational logic with applications and basic sequential logic with applications. Examples are presented using discrete logic IC's and programmable logic devices (PLD's). Electrical considerations related to digital logic circuits are also addressed.

Prerequisite: EET 141 and MTH 125 (or MTH 100 or MTH 132) or consent of instructor.

Credit: 4 semester hours Lecture: 3

Lah· 2

EET 141 -

EET

1.2

DC/AC Circuits and Electronics I 12 IAI: None

The DC/AC Circuits and Electronics I course develops techniques for circuit analysis using electronics applications. Basic electrical concepts are introduced. Circuit analysis using Ohms' Law, Kirchhoff's voltage, and current laws is explained. Electronic devices such as diodes, MOSFETs, BJTs, and op amps are employed extensively to illustrate applications. Laboratory activities include learning to use digital multimeters. DC power supplies, signal generators, and oscilloscopes. Electronic Design Automation using PSpice is used. Laboratory documentation employing Microsoft Word and Excel is explained.

Prerequisite: Credit or concurrent enrollment in MTH 125 (or MTH 100, MTH 132) or consent of instructor Credit: 4 semester hours Lecture: 3 Lab: 3

EET 142 -

DC/AC Circuits and Electronics II IAI: None 1.2

DC/AC Circuits and Electronics II is a continuation of EET 141. Circuit analysis techniques such as simplifying circuits and the development of equivalent circuits are examined. Electronic devices are used routinely to emphasize circuit analysis applications. Prerequisite: EET 141 and MTH 125 (or MTH 100, MTH 132) or consent of instructor Credit: 4 semester hours

Lecture: 3

Lab: 3 107
EET 168 -**Electronic Engineering Technology** Internship

IAI: None 12 EET Internship requires a supervised experience in the field of electronic engineering technology using a cooperative training plan agreed to by the instructor, participating firm, and student. The student must submit an application to the instructor prior to mid-term of the previous semester and requires consent of the instructor or division director. Variable and repeatable credit up to six credit hours may be earned.

Prerequisite: Current enrollment in the Electronic Engineering Technology curriculum, completion of at least 20 credits in EET courses, and sophomore class standing.

Credit: 1-6 semester hours Lecture: 0 Lab: 5-30

EET 219 -**Fundamentals of Electric Motors** and Controls

IAI: None

Fundamentals of Electric Motors and Controls introduces the fundamentals of DC, single-phase AC, and three-phase AC motors and controls. Topics include: basic magnetic theory, motor characteristics and construction, various types of electromechanical and electronic motor controls DC and AC generators, transformers, and stepper motors. Lab exercises are coordinated with lecture presentations. Prerequisite: EET 142, EET 240, CDT, 162, and MTH 100 (or MTH 100, MTH 132) or consent of instructor Credit: 3 semester hours Lah. 2 Lecture: 2

EET 231 -**Transform Circuit Analysis** IAI. None

12 Transform Circuit Analysis reviews DC and AC circuit theory including Thevenin's, Norton's, and the superposition theorem. Mesh and nodal analyses are covered. Waveform descriptions and time-domain solutions are developed. Differential equations are generated and solutions developed using Laplace transform methods. Transform circuit analysis is emphasized. Pole-zero analysis, driving-point impedance, and transfer functions are introduced. Computer assignments using PSpice are required. Circuit concepts are illustrated through classroom demonstrations and laboratory experiments. Prerequisite: EET 132 and MTH 135; or consent of instructor. Credit: 4 semester hours Lah. 2 Lecture: 3

EET 239 -**Programmable Logic Controllers** (PLCs)

IAI: None 12 Programmable Logic Controllers (PLCs) introduces the application and programming of powerful and flexible devices for industrial control systems. Topics include: ladder logic, PLC programming, program documentation, and PLC input/output requirements. Laboratory exercises include hands-on work with a small PLC system to complete PLC projects. Prerequisite: EET 135, EET 141, EET 145 and EET 240 Credit: 3 semester hours Lab: 2

Lecture: 2

EET 240 -

12

DC/AC Circuits and Electronics III IAI: None

DC/AC Circuits and Electronics III is a continuation of EET 142. The course provides more advanced exploration and mastery of the topics introduced in EET 141 and EET 142. Frequency response and power applications are studied. Electronic Design Automation is used extensively to simulate circuits constructed in the laboratory. Laboratory activities include using oscilloscopes and signal generators. Students will be expected to use Microsoft Word and Excel to prepare their laboratory reports

Prerequisite: EET 142 or consent of instructor

Credit: 4 semester hours Lah. 3 Lecture: 3

EET 242 -

Sensors, Transducers, and Signal -Conditioning IAI: None 1.2

Sensors, Transducers, and Signal-Conditioning presents all of the components found in a modern instrumentation system including sensors and transducers, signal conditioning, data collection and display. Sensors for various physical quantities are discussed, including: temperature, pressure, strain, acceleration, and displacement. Laboratory activities are coordinated with the lecture topics. Prerequisite: EET 240 or consent of instructor. Credit: 3 semester hours

EET 245 -**Control Systems**

Lecture: 2

IAI · None

Control Systems introduces basic industrial control systems. Topics include: on-off control, several forms of proportional analog control, digital control, and fuzzy logic control. Related topics such as feedback sensors and stability concerns are studied. Laboratory activities are coordinated with the lecture topics.

Prerequisite: EET 240 or consent of instructor.

Credit: 3 semester hours

Lecture: 2

EET 251 -**Microcontrollers and Interfacing** IAI: None

12 Microcontrollers and Interfacing introduces the student to microcontroller architecture and C programming for embedded control applications. The course deals with the logical development of programs with appropriate software documentation, and the associated hardware interfacing. Professional programming and debugging tools are used throughout the course. Laboratory work includes writing programs and building hardware for various applications. Prerequisite: EET 135 or consent of instructor Credit: 4 semester hours Lecture: 3 Lab: 3

EET 254 -

Robotics and Automated Systems IAI: None

Robotics and Automated Systems introduces the student to the mechanical, electrical, and electronic components used in robotics and other automated systems. The student will learn essential terminology used in robotics and the basic operation of robots in automated manufacturing. The course deals with analog-to-digital (ADC) and digital-to-analog (DAC) conversion for component interfacing. The student will be introduced to the programming software used for automated systems. Laboratory work includes interfacing the components properly, and writing programs using CAD software and the robot programming language in group or individual projects.

Prerequisite: Consent of instructor Credit: 3 semester hours Lecture: 2 Lab: 2

EET 261 -

Advanced Microcontrollers IAI: None

1.2 Advanced Microcontrollers presents microcontrollers for solving basic control problems. Hardware interfacing and software design are studied. The instruction centers on the more popular low-cost microcontrollers. Laboratory activities are coordinated with the lectures and include one or more design projects. Prerequisite: EET 251 Credit: 3 semester hours Lecture: 2 Lab: 2

FFT 265 -

Lab. 2

12

Lab: 2

Audio Electronic Systems IAI: None 12

Audio Electronic Systems introduces the fundamentals of electronic systems for reproduction or reinforcement of sound. This course presents an overview of acoustics and all components of an audio system. including: input transducers (microphones), digital and analog signal processors, amplifiers, and output transducers (loudspeakers). Various analog and digital recording technologies are explored. Laboratory exercises are coordinated with lecture topics. Prerequisite: EET 240 or consent of instructor. Credit: 3 semester hours

Lecture: 2 Lab: 2

108

1.1

Lab: 0

1.1

EET 275 -**Wireless Electronics** IAI: None

Wireless Electronics introduces the basic principles of electronic communications, radio frequency identification (RFID), and remote passive and powered sensors such as those based on surface acoustical wave (SAW) devices. Resonant circuits are studied. Amplitude-, frequency-, and phase modulation and demodulation techniques are covered. Transmission lines and antennas are also explored. Prerequisite: EET 240 or consent of instructorCredit: 3 semester hours Lecture: 2 Lab: 2

12

1.2

Lab: 2

Lab. 2

12

EET 282 -**EET Capstone Project**

IAI: None

EET Capstone Project is a project-based experience that allows the student to use basic and advanced principles covered in other courses. Students will work individually or in teams to select a project with the consent of the faculty advisor. Project schedule management is emphasized. Project parameters and specifications will be developed. A budget will be established. Approaches to final testing, in order to verify that specifications have been met, will be addressed. Prerequisite: EET 240, EET 251, and EET 254

Credit: 3 semester hours Lecture: 2

EET 285 -Introduction to Digital **Signal Processing** IAI: None

1.2 Introduction to Digital Signal Processing presents fundamental sampled data systems and digital signal processing (DSP) as an alternative to traditional analog techniques. Topics include: Nyquist criteria, convolution and transform techniques. Infinite Impulse Response (IIR) digital filters, and Finite Impulse Response (FIR) digital filters. The required mathematics is covered. Laboratory activities include using signal generators, oscilloscopes, and commercial DSP evaluation board and software. Prerequisite: EET 240 and EET 251 or consent of instructor. Credit: 3 semester hours

EET 298 -**EET Seminar**

Lecture: 2

IAI: None

EET 298 is a weekly discussion regarding current events in the electronics industry. Topics may include sensors, integrated circuits, microcobtrollers, robotics, alternative energy, power electronic, modeling, and simulation. Students will select topics of interest, research the topics, prepare a written report, and lead a class discussion. Prerequisite: EET 240, EET 251, and EET 254 Credit: 3 semester hours

Lecture: 3 Lab: 0

EET 299 -**Special Topics in Electronic** Engineering Technology IAI: None

Special Topics in Electronic Engineering Technology explores specific applications, skills, or interest in modern electronics technology. A special topic requires: adequate and available materials on a specific electronics-related issue, a comprehensive course outline, instructor expertise, student and community interest, and ability to increase skill and/or knowledge in electronic engineering technology. Variable and repeatable credit up to six credit hours may be earned. Prerequisite: Determined by the special topic.

Credit: 1-6 semester hours Lecture: 1-6 Lab: 0-4

ENGINEERING

Division of Engineering and Technology (815) 921-3101

EGR 101 -Introduction to Engineering IAI: None

Introduction to Engineering is a study of engineering and technological systems. The course explores various engineering disciplines, the role of the engineer in society, the engineering approach to problem solving and the engineering design process. Laboratory activities involve reverse-engineering products to find out how they are designed and manufactured. Prerequisite: None Credit: 2 semester hours

Lecture: 1 Lab: 2

EGR 135 -**Engineering Graphics**

IAI: EGR 941 (approval pending) Engineering Graphics is an introduction to engineering and design. Topics include multi-view orthographic representations, auxiliary projections, dimensioning, section views, basic tolerancing, threads and fasteners, assembly drawings, 2-D production drawings, 3-D solid modeling used for part generation, prototyping and engineering analysis. (Solidworks will be used as modeling software.) Prerequisite: None Credit: 4 semester hours Lecture: 2 Lab: 4

EGR 206 -Statics

12

EGR

12

IAI: EGR 942 1.1 Statics is an analysis of real force systems by applying the principles of equilibrium to rigid bodies, simple structures and fluids. Distributed forces, determination of centroids, moments of inertia, analysis of structures, virtual work, friction, and related topics are presented. Prerequisite: Credit or concurrent enrollment in MTH 135. Credit: 3 semester hours Lecture: 3 Lab: 0

EGR 207 -**Dynamics**

IAI: EGR 943

Dynamics is an analysis of motion of particles and the relationship between forces acting on bodies and the changes in motion produced. Particle and planar kinematics, principles of force, mass and acceleration, work and energy, vibration, impulse and momentum, and related topics are presented. Prerequisite: EGR 206

Credit: 3 semester hours Lecture: 3

EGR 221 -**Elementary Mechanics of Deformable Bodies**

IAI: EGR 945 11 Elementary Mechanics of Deformable Bodies studies the relationship between external forces and the stresses and deformations they produce in a deformable body for both elastic and inelastic behavior. Consideration is given to members subjected to tension and compression, torsion, and bending related to: loading and deflection of beams and shafts, buckling of columns, repeated loads, combined stresses, analysis of stress and strain, Mohr's Circle, and related topics. Prerequisite: EGR 206 Credit: 3 semester hours Lecture: 3 Lab: 0

EGR 231 -

Engineering Circuit Analysis IAI: EGR 931

Engineering Circuit Analysis reviews DC and AC circuit theory including Thevenin's, Norton's, and the superposition theorem. Mesh and nodal analyses are covered. Waveform descriptions and timedomain solutions are developed. Differential equations are generated, and solutions developed by using Laplace transform methods. Transform circuit analysis is emphasized. Pole-zero analysis, driving-point impedance, and transfer functions are introduced. Computer assignments using PSpice are required. Circuit concepts are also illustrated through classroom demonstrations. Prerequisite: Credit or concurrent enrollment in PHY 225 or consent of instructor. Credit: 3 semester hours

Lecture: 2

Lab: 3

ENGLISH -DEVELOPMENTAL ENG

Success Center, (815) 921-2370

ENG 082 -Basic English Skills

 IAI: None
 1.4

 Basic English Skills is designed to develop
 skills in English grammar and language

 use, as well as enhance background and
 understanding of a variety of literature, in

 order to prepare the students for the next
 level of developmental English.

 Co-prerequisite: Students must be concurrently enrolled in RDG 080 based on
 the reading placement test.

 Credit: 4 semester hours
 Lecture: 4

 Lecture: 4
 Lab: 0

ENG 097 -Essentials of Writing

IAI: None

Essentials of Writing is designed to enhance the development of basic writing strategies with a focus on the writing process. Students will be introduced to strategies for approaching the stages of the writing process and applying these to paragraph modes. ENG 097 is an optional class designed to help students improve their writing to the level necessary for entering ENG 099. *Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0*

ENGLISH

Liberal Arts Division, (815) 921-3338

ENG 099 -Introduction to College Writing IAI: None 1.4

Introduction to College Writing prepares students for writing at the college level. The course requires substantial practice in writing brief, coherent essays that demonstrate critical thinking skills. Students complete 12-16 pages of formal writing during the course of the semester, including both expressive and expository assignments. A significant amount of reading is also required, both to develop language and critical thinking skills and to provide a context for some usage, particularly within the context of students' own writing. Students scoring below the cut-off point in the English placement test are required to take ENG 099. A grade of "C" or better is required in this course to advance to ENG 101

Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

ENG 101 -Composition I IAI: C1 900

1.1 Composition I teaches students to write effectively at the college level. Emphasizing writing as a process, this course requires students to write one or more essays of each type: exploratory. expository, and persuasive. Necessary attention is devoted to English grammar and usage. Students are required to write from 16-24 pages during the course. Prerequisite: Sufficiently high placement test score; a grade of "C" or better in ENG 099, Developmental English. Credit: 3 semester hours Lab: 0 Lecture: 3

ENG 103 -Composition II

IAI: C1 901R

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ENG

English Composition II, the second required writing course in a two-semester composition sequence, provides practice with reading and writing. Encouraged to see the power and possibility of language, students learn to responsibly address larger societies of readers. Students will complete research processes, selecting and interacting with sources, culminating in the production of documented, multisource writing totaling at least 2,500 words. Students will write 16-24 pages during the course Prerequisite: A grade of "C" or higher in ENG 101, Composition I. Credit: 3 semester hours

Lecture: 3 Lab: 0

ENG 105 -Business Communications

IAI: None 1.2 Business Communications covers the current trends affecting business communication today. Students will demonstrate both verbal and nonverbal skills through a variety of professional documents such as letters, memos, e-mail and reports. Special emphasis is placed on good news, bad news, and persuasive messages using the psychological approach to writing. Prerequisite: ENG 101 or consent of instructor. Credit: 3 semester hours

Lecture: 3 Lab: 0

ENG 106 -Professional Written Communication IAI: None

IAI: None1.2Professional Written Communication provides an overview of the writing techniques necessary for effective written communication in today's workplace. It is designed to be a flexible introduction and review of sentence and paragraph structure, readability, the writing process, and letters, memos, proposals, reports, and other professional documents.Prerequisite: NoneCredit: .5-3 semester hoursLecture: .5-3

ENG 107 -Grammar and Usage Review IAI: None

IAI: None 1.2 Grammar and Usage Review is a review of the conventions and standards in modern written English. Problems most frequently encountered in academic, business, and industrial writing are addressed. The emphasis is on functional applications of contemporary rules and attitudes toward language and intensive editing and proofreading practice. This course does not take the place of ENG 099 and cannot be used as a prerequisite for any other English course. Prerequisite: None

Credit: 2 semester hours Lecture: 2 Lab: 0

ENG 108 -

1.1

Introductory Creative Writing IAI: None

IAI: None 1.1 Introductory Creative Writing gives the student practice in the creative writing skills needed for effective expression in a variety of imaginative genres, ranging from fiction to memoir and poetry. Students develop critical judgment as they analyze and discuss their own work, that of their classmates, and that of published writers. *Prerequisite: A grade of "C" or better in ENG 101.*

Credit: 3 semester hours Lecture: 3

Lab: 0

Lab: 0

ENG 110 -

Introductory Technical Writing IAI: None 1.2 Introductory Technical Writing is the study of objective, analytical report writing in the technical and business fields. The course includes organization, style, and format standards for letters, memos, instructions/procedures, and a variety of reports. Emphasis is on developing problem-solving or investigative reports, and

writing processes and procedures. Prerequisite: ENG 101 or consent of instructor.

Credit: 3 semester hours Lecture: 3

ENG 201 -

Advanced Composition IAI: None 1.1 Advanced Composition is intended for the student interested in pursuing additional study of the writing of non-fiction prose. The course involves advanced study of both the theory and practice of stylistic analysis. Prerequisite: A grade of "C" or higher in ENG 101.

Credit: 3 semester hours Lecture: 3 Lab: 0

110

ENG 204 -Introduction to Linguistics IAI: None

Introduction to Linguistics is a practical investigation into many facets of the English language in daily use. Topics include phonetics, phonology, morphology, syntax, semantics, pragmatics, dialectology, and history of the English language. *Prerequisite: A grade of "C" or better in ENG 101.*

1.1

Credit: 3 semester hours Lecture: 3 Lab: 0

ENG 206 -

Creative Writing: Poetry IAI: None

IAI: None 1.1 Creative Writing: Poetry focuses on students' understanding of the structure and elements of poetry and the writing process. Students will produce fully-developed works of poetry, and demonstrate an understanding of the critical terminology of the creative writer. A minimum of 25 pages of original work is recommended. *Prerequisite: A grade of "C" or higher in ENG 101.*

Credit: 3 semester hours Lecture: 3 Lab: 0

ENG 207 -Creative Writing: Fiction

IAI: None1.1Creative Writing: Fiction focuses on students' understanding of the structure and
elements of fiction and the writing process.Students will produce fully developed
works of fiction, and demonstrate an
understanding of the critical terminology of
the creative writer. A minimum of 45 pages
of original work is recommended.

Prerequisite: A grade of "C" or better in
ENG 101.

Credit: 3 semester hours
Lecture: 3Lab: 0

ENG 208 - Creative Writing: Screenwriting

IAI: None 1.1 Creative Writing: Screenwriting focuses on students' understanding of the essential elements of dramatic art, the structure and formatting requirements of a screenplay or teleplay, and proven principles of visualization, development, revision, completion, and submission of creative dramatic writing Students will produce fully developed works of drama suitable for stage, cinema, television, radio, and/or the emerging interactive hypermedia. A minimum of 45 pages of original work is recommended. Prerequisite: A grade of "C" or better in ENG 101.

Credit: 3 semester hours Lecture: 3 Lab: 0

ENG 209 - Creative Writing – Literary Non-Fiction IAI: None

Creative Writing – Literary Non-Fiction is designed to introduce students to the structure and elements of literary non-fiction and the writing process. Students will demonstrate an understanding of the critical terminology of the creative writer, the

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essentials of form and structure, and the process of writing for publication including revision, completion, and submission of creative non-fiction writing. Students will produce fully-developed works of non-fiction in genres which may include memoir, diary, personal essay, travel writing, nature writing, and writing of witness. A minimum of 25-30 finished pages of original work is recommended. Journals, a midterm, and a final exam are also required. Prerequisite: A grade or "C" or higher in ENG 101. Credit: 3 semester hours Lab. 0 Lecture: 3

ENG 210 - Technical Writing IAI: None

Technical Writing includes document design, visual and graphic elements, word processing/desktop publishing methods, and print production. Typical assignments include articles for publication, proposals, brochures, newsletters, manuals, and media presentations based on students' majors or work experiences. Prerequisite: ENG 110 or consent of the instructor. Credit: 3 semester hours Lecture: 3 Lab: 0

ENG 220 - Technical Writing Internship IAI: None

Technical Writing Internship provides approximately 150 hours of writing experience on special projects appropriate to the student's major and work experience. The internship provides further development and exposure to technical writing through supervised field experiences. *Prerequisite: ENG 110, ENG 210 (or concurrent enrollment), and consent of instructor. Credit: 3 semester hours Lecture: 1 Lab: 10*

FIRE SCIENCE

Division of Allied Health and Human Services (815) 921-3200

FRE 101 -Introduction to Fire Protection

IAI: None 1.2 Introduction to Fire Protection provides an overview to fire protection, career opportunities in fire protection, and related fields; philosophy and history of fire protection/service; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service, fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics. Prerequisite: None Credit: 3 semester hours Lab: 0 Lecture: 3

FRE 102 -Fire Apparatus Engineer

IAI: None1.2Fire Apparatus Engineer provides a foundation of theoretical knowledge in order to
understand the principles of the use of
water in fire protection and to apply
hydraulic principles to analyze and to solve
water supply problems.Prerequisite: None
Credit: 3 semester hours
Lecture: 3Lab: 0

FRE 103 -

1.2

12

FRE

Hazardous Materials Operations IAI: None 1.2

The Hazardous Materials Operations course provides the student with the basic skills needed to evaluate and work defensively at a hazardous materials incident. Included are the classifications of hazardous materials, types of chemicals, methods of transportation and laws that regulate their use. *Prerequisite: FRE 101 or consent of*

instructor. Credit: 3 semester hours Lecture: 3 Lab: 0

FRE 106 -

Rescue Practices

 IAI: None
 1.2

 Rescue Practices explores life-saving practices related to the operations of the fire company as well as the preparedness of the fire department to meet the needs of special rescue situations. The course provides an overview of water rescue, technical rescue, and vehicle extrication.

 Prerequisite: None
 Credit: 3 semester hours

 Lab: 0
 Lab: 0

FRE 112 -

Vehicle/Machinery Rescue Operations IAI: None 1.2

Vehicle/Machinery Rescue Operations is designed to acquaint the student with techniques used in auto and machinery extrication. Emphasis will be on safety of personnel at emergency incidents, scene size-up, and management of the emergency scene, as well as function of the tools utilized in vehicle and machinery extrication. This course meets the requirements as defined by the Office of the Illinois State Fire Marshal and NFPA 1670 Prerequisite: FRE 101 or consent of instructor and OSFM - Technical Rescue Awareness Certificate. Credit: 3 semester hours Lecture: 2 Lab: 2

FRE 118 -**Building Construction for Fire** Protection

IAI: None

12 Building Construction for Fire Protection introduces the components of building construction that relate to fire and life safety. The focus of this course is on firefighter safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. Prerequisite: None Corequisite: FRE 101 Credit: 3 semester hours Lecture: 3 Lab: 0

FRE 180 -

Essentials of Firefighting I IAI: None

Essentials of Firefighting I introduces students to basic firefighting skills and equipment. The class includes the following subject areas: orientation, fire behavior, safety, self-contained breathing apparatus, ladders, and portable fire extinguishers. This course, combined with Essentials of Firefighting II and Essentials of Firefighting III, provide the student with the required training to sit for the Office of the State Fire Marshal Certification Exam for Firefighter II. Prerequisite: FRE 101 Corequisites: FRE 181, 182 Credit: 3 semester hours Lab: 2 Lecture: 2

FRE 181 -**Essentials of Firefighting II** IAI: None

12 Essentials of Firefighting II is an intermediate firefighting skills course that provides the student with an understanding of the principles behind the following subject areas: water supply; nozzles/fire streams, ventilation, rescue, emergency medical care, forcible entry, fire control, and building construction. The course, when combined with Essentials of Firefighting I and Essentials of Firefighting III, will provide the student with the required training to sit for the Office of the Illinois State Fire Marshal Certification Exam for Firefighter II. Prerequisite: FRE 101 Corequisites: FRE 180, 182 Credit: 3 semester hours Lecture: 2 Lab. 2

FRE 182 -**Essentials of Firefighting III** IAI: None

12 Essentials of Firefighting III is an advanced firefighting skills course that combines both previous courses and introduces practical applications. Topics presented are communications, ropes and knots, salvage, overhaul, fire detection, alarm and suppression systems, fire prevention and public education, hazardous materials awareness, terrorism awareness, and firefighter survival. This course, combined with Essentials of Firefighting I and Essentials of Firefighting II, will provide a

student with the required training to sit for the Office of the Illinois State Fire Marshal Certification Exam for Firefighter II. Prerequisite: FRE 101 Corequisites: FRE 180, 181 Credit: 3 semester hours Lecture: 2 Lab: 2

FRE 206 -Management I

IAI. None 12 Management I is an introduction to the organization and management of a fire department and the relationship of government agencies to the fire service. Emphasis is placed on fire service leadership from the perspective of the company officer. Prerequisite: FRE 101 Credit: 3 semester hours Lecture: 3 Lab: 0

FRE 207 -Management II

12

IAI: None

1.2 Management II is an examination of small group communication and conflict resolution techniques. Topics include written communication skills, verbal and non-verbal communication techniques, handling conflicts, small group processes and the respective dynamics associated with the same, and group cohesiveness and personnel morale Prerequisite: FRE 206 Credit: 3 semester hours Lecture: 3 Lab: 0

FRE 208 -**Fire Prevention Principles** IAI: None

12 Fire Prevention Principles provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with builtin fire protection systems, fire investigation, and fire and life-safety education. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

FRE 210 -**Fire Investigation**

IAI: None

Fire Investigation provides the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the firesetter, and types of fire causes. Prerequisite: FRE 101 Credit: 3 semester hours Lab: 0 Lecture: 3

FRE 216 -**Tactics and Strategy I**

IAI: None 1.2 Tactics and Strategy I is designed for fire service personnel who may be responsible for one or two companies at emergency incidents. Company officer leadership, incident safety, pre-fire planning, building construction, firefighting tactics, engine company and truck company operations. Prerequisite: FRE 101 or consent of the instructor. Credit: 3 semester hours

Lecture: 3

FRE 217 -

Tactics and Strategy II

12 IAI: None Tactics and Strategy II is designed for fire service personnel who may be responsible for one or two companies at emergency incidents. Company officer leadership, incident safety, pre-fire planning, building construction, firefighting tactics, engine company and truck company operations. Prerequisite: FRE 216 Credit: 3 semester hours Lecture: 3 Lab: 0

FRE 218 -Instructor I

Lab: 0

IAI: None 1.2 Instructor I will prepare the student to become a fire service instructor. The course is designed to give the student the knowledge and ability to teach from prepared materials. Topics covered include: communications, concepts of learning, instruction and evaluation techniques, the instructor's roles and responsibilities and use of instructional materials. Prerequisite: FRE 101 or consent of the instructor.

Credit: 3 semester hours Lecture: 3 Lab: 0

FRE 219 -Instructor II

IAI: None 1.2 Instructor II places emphasis on teaching formalized lessons from materials prepared by the fire service instructor. Course coverage includes: writing performance objectives, developing lesson plans, preparing instructional materials, constructing evaluation devices, demonstrating selected teaching methods, training records and reports, and identification of reference resources. Prerequisite: FRE 218 Credit: 3 semester hours Lab. 0 Lecture: 3

FRE 220 -

12

Management III IAI · None

12 Management III is designed to provide the fire officer, who is in charge of multiple fire company or stations, with information and skills in officer supervision and administrative functions. Subject areas covered will include planning and decision-making, finance and budgeting, risk management, public relations and the news media. Prerequisite: FRE 207 Credit: 3 semester hours Lab: 0 Lecture: 3

FRE 223 -**Emergency Medical Technician/EMT-Basic** IAI: None

Emergency Medical Technician/EMT-Basic covers emergency care, handling, and extrication of the critically ill and injured. Topics covered include control of hemorrhage, treatment of shock, fractures, soft tissue injuries, burn victims, poisoning, emergency childbirth, packing and transportation of the sick and injured. Prerequisite: None Credit: 9 semester hours Lah· 4 Lecture: 7

FRE 225 -Management IV

IAI · None

Management IV course focuses on analyzing and organizing personnel assignments, developing personnel policies, reviewing and approving capital budgets and fiscal financing, implementing public relations programs and management systems for the fire service. Advanced personnel management, organizing health and safety programs and labor relations are other areas of focus in this upper level management course.

Prerequisite: FRE 220 Credit: 3 semester hours Lecture: 3

FRE 240 -**Fire Protection Internship** IAI: None

Fire Protection Internship provides the student with an opportunity to apply and expand upon newly-acquired skills in the fire service work environment. This course is carried out cooperatively between the student and the host facility. Periodic review sessions will be held to assess the student's progress. Participation requires an interview and selection process. Prerequisite: FRE 182 Corequisite: FRE 206, 208 Credit: 1 - 6 semester hours Lecture: 0 Lab: 1 - 6

FRE 250 -

Special Topics in the Fire Service IAI: None

Special Topics in the Fire Science is designed to allow a student to apply other learning experiences toward credit at Rock Valley College. National Fire Academy courses, Illinois Fire Service Institute courses, workshops and seminars are examples of experiences that may be reviewed for credit. A total of four credits will be allowed for this course. Prerequisite: Enrollment in the Fire Science curriculum. Credit: 1 - 4 semester hours Lecture: 1 - 4 Lab: 0

FITNESS, WELLNESS, AND SPORT

Division of Fitness, Wellness, and Sport (815) 921-3801

FWS

FWS 110 -

12

12

Lab: 0

12

Fitness Walking IAI: None 11 Fitness Walking provides individuals with a low-impact alternative to jogging as a means of improving cardiovascular fitness and overall health. Prerequisite: None Credit: 1 semester hour Lab: 2 Lecture: 0

FWS 113 -Low Impact Aerobics

IAI · None 11 Low Impact Aerobics develops and improves strength, flexibility, and cardiovascular endurance. Prerequisite: None Credit: 1 semester hour Lab: 2 Lecture: 0

FWS 116 -Step Aerobics

IAI: None 1.1 Step Aerobics is designed to stimulate and initiate aerobic-fitness awareness through broadening knowledge and experience of movements of the body through the use of the STEP. Prerequisite: None Credit: 1 semester hour Lecture: 0 Lab: 2

FWS 119 -**Cardio Kickboxing**

IAI: None 11 Cardio Kickboxing is designed to provide individuals with an aerobic workout. Tae Kwon Do and boxing skills are incorporated into this high-energy exercise session. Prerequisite: None Credit: 1 semester hour Lecture: 0 Lab: 2

FWS 121 -**Principles of Aerobic Conditioning**

IAI: None Principles of Aerobic Conditioning provides the student with the basic concepts of developing an aerobic conditioning program. Prerequisite: None Credit: 1 semester hour Lecture: 0 Lab: 2

FWS 126 -**Beginning Weight Lifting** IAI: None

1.1 Beginning Weight Lifting introduces basic and intermediate strategies to developing an appropriate individual strength and resistance program. Emphasis will be placed on understanding basic program design, implementation, and execution of basic resistance exercises. Prerequisite: None Credit: 1 semester hour Lecture: 0 Lab: 2

FWS 127 -

Advanced Weight Lifting

IAI: None 1.1 Advanced Weight Lifting provides the student with an in-depth study of weightlifting techniques, strategies, and theories. This course will focus on free weights and advanced lifting strategies that are currently used. Prerequisite: FWS 126 Credit: 2 semester hours Lecture: 1 Lab: 2

FWS 131 -

Basketball and Touch Football

1.1 IAI: None Basketball and Touch Football acquaints the student with the skills, strategies, and rules of basketball and touch football. Prerequisite: None Credit: 1 semester hour Lecture: 0 Lab: 2

FWS 133 -

Power Volleyball IAI: None 1.1 Power Volleyball introduces the student to the following fundamentals of power volleyball: the forearm pass, the floater serve, the overhead set, spiking, blocking, the five-one offensive and two-four defensive patterns. Prerequisite: None Credit: 1 semester hour Lecture: 0 Lab: 2

FWS 135 -

Golf IAI: None Golf is designed for both the beginning and

experienced players. Students will develop the fundamental skills, techniques, and strategy through practice and playing on the golf course. Prerequisite: None Credit: 1 semester hour Lecture: 0 Lab. 2

FWS 137 -

Tennis IAI · None 11 Tennis is designed to develop and improve the proper skills and fundamentals necessarv to enjoy the game of tennis through practice and playing experiences on tennis courts. Prerequisite: None Credit: 1 semester hour Lab: 2 Lecture: 0

1.1

FWS 139 - Soccer

IAI: None 1.1 Soccer acquaints the beginning student with the fundamental soccer skills of dribbling, passing, kicking, tackling, trapping, heading and goalkeeping. Simple offensive and defensive strategies will be emphasized.

Prerequisite: None Credit: 1 semester hour Lecture: 0 Lab. 2

FWS 140 -**Basic Physical Defense for Women** IAI None

This course is a women's only self-defense and risk reduction education program designed to teach realistic ways to lessen the chances of and defend against physical assault. Prerequisite: None

Credit: 1 semester hour Lab. 2 Lecture: 0

FWS 141 -Hiking, Cycling, and Outdoor Activities IAI: None

1.1 Hiking, Cycling, and Outdoor Activities is designed to acquaint the student with these activities. Emphasis will be on an appreciation of nature and enjoying the out-of-doors via a fitness activity. The class will be traveling to various biking and hiking sites. Prerequisite: None Credit: 1 semester hour Lah 2 Lecture: 0

FWS 143 -Snorkeling

11 IAI: None Snorkeling is offered in connection with other college travel classes visiting warm water locations. This course is designed to introduce the student to a variety of open water and reef snorkeling experiences by visiting and exploring the numerous sites available in the area. Prerequisite: None Credit: 1 semester hour Lecture: 0 Lab: 2

FWS 145 -

Scuba Diving IAI · None 11 Scuba Diving introduces the student to the skills and knowledge necessary for PADI (Professional Association of Diving Instructors) Open Water Diver certification Prerequisite: None Credit: 1 semester hour Lecture: 0 Lab: 2

FWS 146 -**Open Water Scuba**

1.1 IAI: None Open Water Scuba is offered in connection with other college travel classes visiting a warm water location. PADI certification may be started by completing the necessary classroom and pool sessions prior to

departure. If desired, final checkout dives may be completed on site in the warm open water. For those with PADI certification, credit is earned by completing a minimum of eight open water dives. Prerequisite: None Credit: 1 semester hour Lab: 2 Lecture: 0

FWS 150 -Shoto-kan Karate

IAI: None 11 Shoto-kan Karate is designed to introduce the student to the fundamentals of selfdefense. Students will learn the history and philosophy of Shoto-kan Karate as well as develop the basic skills of kicks, blocks and self-defense holds and releases. Prerequisite: None Credit: 1 semester hour Lecture: 0 Lab: 2

FWS 151 -**Tae Kwon Do**

IAI: None

Tae Kwon Do is an introduction to a system of techniques for self-defense and counter-attack by the unarmed. The course promotes skill development in basic Tae Kwon Do techniques. Prerequisite: None Credit: 1 semester hour Lecture: 0 Lab: 2

FWS 176 -**Intercollegiate Sports I** IAI: None

11 Intercollegiate Sports I is a course for students who are members of one of the college's intercollegiate team sports programs. These include: Women's tennis, basketball, softball and vollevball; men's baseball, basketball, golf, tennis, and football. Students may earn a maximum of two credits for any combination of FWS 176 and FWS 177

Prerequisite: Permission from respective coach is required to enroll in this class. Credit: 1 semester hour

Lecture: 0

FWS 177 -**Intercollegiate Sports II** IAI: None

Intercollegiate Sports II is a course for students who are members of one of the college's intercollegiate sports programs. These include: Women's tennis, basketball, softball and volleyball; men's baseball, basketball, golf, tennis and football. Students may earn a maximum of two credits for any combination of FWS 176 and FWS177. Students may not enroll in FWS 177 without completing FWS 176. Prerequisite: Permission from respec-

tive coach is required to enroll in this class. Credit: 1 semester hour

Lecture: 0 Lab: 2

FWS 220 -

Introduction to Career Opportunities in Physical Education, Exercise Science and Sport

IAI: None 1.1 Introduction to Career Opportunities in P.E., Exercise Science and Sport provides an opportunity for the student to examine career opportunities in physical education, coaching, sports medicine and closelyrelated fields Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

FWS 223 -

1.1

Lab: 2

11

Physical Education For the Elementary School Teacher IAI · None

Physical Education for the Elementary School Teacher introduces the pre-service teacher to content and methods of teaching age-appropriate physical activities to children, in grades K-6. There will be special emphasis placed on appropriate pedagogical techniques in assessing, designing, and instructing a well-designed and meaningful physical education program. Prerequisite: None Credit: 3 semester hours

Lecture: 3

FWS 225 -**Principles of Adapted Physical** Education

1.1 IAI: None Principles of Adapted Physical Education acquaints the student with the principles of conducting adaptive recreational and physical education programs. It is an indepth study of the background and foundations of disabilities in the special student and adult. Prerequisite: None Credit: 3 semester hours Lecture: 3

Lab: 0

11

Lab. 0

FWS 231 -

Contemporary Health Issues IAI: None

1.1 Contemporary Health Issues provides health information to students so they can make intelligent decisions concerning their health and the health of significant others. Prerequisite: None Credit: 3 semester hours Lab. 0 Lecture: 3

FWS 233 -

Community Health IAI · None

11 Community Health is designed to provide the student with an in-depth study of community health organizations issues such as population growth, environment, poverty, medical care and disease. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

FWS 235 -**Alcohol and Drug Education** IAI: None

1.1 Alcohol and Drug Education is designed to educate the student about issues relating to all drugs and chemicals used in today's society. Students will learn about prescription drugs, over-the-counter drugs, illicit drugs, and controversial issues surrounding the usage of various forms of chemicals relevant to current issues Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

FWS 236 -**Human Sexuality**

IAI: SW 912 1.1 Human Sexuality introduces topics of human sexual functioning including the physiology, sociology, philosophy and morality of human sexual practices and of love Prerequisite: None Credit: 3 semester hours

Lecture: 3 Lab: 0

FWS 237 -**Nutrition for Optimum Living** IAI: None

Nutrition for Optimum Living explores the function of nutrients and nutrition as it affects health. Attention is given to understanding the importance and interrelationship of the nutrients to achieving optimal health. Prerequisite: None Credit: 3 semester hours

11

Lab: 0

1.1

Lecture: 3

FWS 240 -Introduction to Athletic Training and Sports Medicine

IAI: None

Introduction to Athletic Training and Sports Medicine stresses principles and techniques for the prevention, recognition, treatment and rehabilitation of common athletic injuries. Includes discussion of the team approach of sports medicine in ensuring quality care to the athlete. Supportive taping and wrapping, duties and responsibilities of the athletic trainer, and operations procedure for athletic trainers are also covered. Students are required to complete one hour of independent lab. Prerequisite: None Credit: 3 semester hours Lecture: 2 Lab: 2

FWS 243 -First Aid and General Safety IAI: None

First Aid and General Safety teaches the student emergency care for accident victims until the services of emergency personnel can be obtained. Upon completion of this course, students will be trained in the American Red Cross techniques of adult, infant and small child CPR and standard first aid Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

FWS 250 -

Introduction to Sport Management IAI: None 11 Introduction to Sport Management will introduce the student to the expanding field of sport management. An overview of the field and specific career opportunities will be covered. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

FWS 253 -Introduction to Coaching IAI: None

Introduction to Coaching covers the basic principles and practices of coaching by examining sport philosophy, pedagogy, physiology, management, and sports medicine. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

FWS 255 -Sociology of Sport IAI: None

11 Sociology of Sport is designed to educate students about the relevance of sport in modern society, the impact of sport on society and the influence which cultural institutions have on sport. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

FWS 258 -Sport and Exercise Psychology IAI: None

Sport and Exercise Psychology is an examination of psychological concepts and coaching attitudes and techniques for improving and fostering athletic performance and enjoyment. The course includes psychological motivation, choice and individual participation in appropriate athletic and fitness activities. Prerequisite: None Credit: 3 semester hours Lecture 3 Lab: 0

FWS 260 -Introduction to Exercise and Sport Science

IAI: None 11 Introduction to Exercise and Sport Science is designed to introduce students to the various aspects of the discipline including areas of study, technology, certifications, professional organizations as well as the current and future trends in exercise science. Prerequisite: None Credit: 3 semester hours Lecture 3

Lab: 0

FWS 261 -

1.1

1.1

Nutrition for Fitness and Sport IAI: None 11

Nutrition for Fitness and Sport explores the relationship between nutrition and physical fitness. Topics covered include: adequate diets for athletes, pre-event meals, nutritional demands of aerobic and anaerobic activities, and caloric expenditure for various physical activities. Prerequisite: None Credit: 3 semester hours Lecture: 3

Lab: 0

FWS 263 -

Nutrition, Exercise and Weight Control IAI: None

11 Nutrition, Exercise and Weight Control is specifically designed for those students who want to better understand the relationship of dieting and exercise to obesity. Based on a multi-disciplinary approach, this class will explore the physiological, sociological and psychological theories of obesity. The role of exercise and fitness in weight control will be demonstrated through the actual planning and implementation of a specificallydesigned exercise program. Prerequisite: None Credit: 3 semester hours

Lecture: 2

FWS 265 -

Personal Fitness and Wellness IAI: None

11 Personal Fitness and Wellness incorporates the principles and theories of wellness into an individualized fitness program. By combining lecture with activity, all aspects of the students' lifestyles will be examined and assessed. Students will be required to attend one group lab and one independent lab session. Prerequisite: None Credit: 3 semester hours Lecture: 2

Lab. 2

Lab: 2

FLUID POWER

Division of Technical Programs (815) 921-3000

FLD 100 -**Introduction to Fluid Power**

12 IAI: None The Introduction to Fluid Power course is designed to provide students with a basic understanding of the concepts and applications of fluid power technology and the necessary skills for further study in the field. The course is an overview of fluid power technology applications; the general concept of fluid power systems; an introduction to energy input, energy output, energy control, and systems auxiliary components; as well as the design and function of components. Prerequisite: None Credit: 3 semester hours

Lecture: 3 Lab: 0

FLD 115 -

Hydraulic Components and Circuits IAI: None

The Hydraulic Components and Circuits course is a study of the principles of operation, construction, and functions of hydraulic components. It is designed to provide students with a working knowledge of hydraulic components, auxiliaries, and fluids as they are utilized both singularly and in combination to develop hydraulic circuits. Prerequisite: FLD 100 Credit: 3 semester hours Lecture: 3 Lab. 0

FLD 120 -

Fundamentals of Pneumatics IAI: None

The Fundamentals of Pneumatics course is designed to give students an understanding of the elementary principles of pneumatics, methods of control, and air circuits. The history and applications of pneumatics are reviewed. Emphasis is placed on those areas of knowledge required to design and fabricate pneumatic circuits representative of those found in industry. Design of these circuits includes valve selection as well as proper sizing of other components. A comparison is made between pneumatics and hydraulics principles, systems, circuits and components. Prerequisite: None

Credit: 3 semester hours Lecture: 3 Lab. 0

FLD 140 -

Lecture: 3

Fluid Power Circuits and Systems IAI · None 1.2

The Fluid Power Circuits and Systems course includes basic concepts of fluid power circuit design and function. It covers open and closed loop systems as well as open center and closed center open loop circuits. The three basic functional types of circuits are discussed: directional control switching, flow control, and pressure control. Prerequisite: Credit or concurrent registration in MTH 100; FLD 115 and FLD 120 or consent of instructor. Credit: 3 semester hours

116

-See Modern Languages

FLD

GEOGRAPHY

Liberal Arts Division (815) 921-3317

GEO 130 -

FLD 158 -

used in robotics.

Lecture: .5-6

FRENCH

Prerequisite: None

Credit: .5-6 semester hours

FOREIGN LANGUAGE

-See Modern Languages

IAI: None

Fluid Power Seminar

The Fluid Power Seminar course covers

hydraulics, pneumatics, or electrohydraulic

systems. The workshop may cover compo-

simulation, fluidics, and hydraulic systems

nents, circuits, control logic, computer

the most recent developments in

World Regional Geography IAL: S4 900N 1.1 World Regional Geography provides an analysis of the physical and human resources of the major world areas. Special attention is given to the economic status of individual nations and the problems and potentialities of their future development. Prerequisite: None

Lab: 0

GEL

11

1.2

Lab: 1-12

GEO

GEOLOGY

Lecture: 3

12

Science Division (815) 921-3471

Credit: 3 semester hours

GEL 101 -**Introduction to Geology** IAI: P1 907L

Introduction to Geology is a survey of the physical composition of the Earth and the dynamic processes that affect the Earth. Topics covered include plate tectonics, mountain building, volcanoes, earthquakes, glaciers, rivers, minerals, and rocks. This course fulfills laboratory science requirements for students both in and outside the geoscience curriculum.

Prerequisite: Sufficiently high placement test score, or completion of MTH 091 & 092 with a grade of "C" or better, or equivalent. Credit: 4 semester hours Lecture: 3

GEL 103 -**Fossils and Earth History** IAI: P1 905L

Fossils and Earth History is an introduction to the geological history of our planet and the evolution of life through the study of rocks and fossils. The course explores the immensity of geologic time and surveys the physical and biological changes of the Earth System through time, such as the origins of Earth, origin of life, the age of reptiles, and the formation and breakup of supercontinents. This course fulfills laboratory science requirements for students both inside and outside the curriculum. Prerequisite: Sufficiently high placement test score, or completion of MTH 091 & 092 with a grade of "C" or better, or equivalent. Credit: 4 semester hours

1.1

Lecture: 3 Lab: 3

GEL 107 -

Geology of the Solar System IAI: P1 905 1.1

Geology of the Solar System is an introductory survey of the solar system with an emphasis on data acquired by space probes. Topics covered will include the origin and evolution of planetary interiors. surfaces, and atmospheres, as well as the origin and composition of the asteroids and comets. Possibilities for and consequences of exploiting the various components of our solar system for natural resources will be discussed. Prerequisite: Sufficiently high placement test score, or completion of MTH 091 & 092 with a grade of "C" or better, or equivalent. Credit: 3 semester hours Lecture: 3 Lab. 0

GEL 206 -**Environmental Geology**

IAI: P1 908

Environmental Geology explores both the constraints imposed by geology on human activities and human impacts on natural processes. Topics include fundamental geologic processes and associated hazards (earthquakes, volcanic eruptions, flooding, landslides), evaluation of geologic resources, and the legal and geologic limitation of resource utilization. The course will explore topics such as waste disposal and land use planning.

11

Lab: 0

Prerequisite: Sufficiently high placement test score, or completion of MTH 091 & 092 with a grade of "C" or better, or equivalent. Credit: 3 semester hours

Lecture: 3

Lab: 3

GEL 250 -**Field Geology** IAI: None

Field Geology introduces students to regional geologic features. The focus will vary but can include emphasis on folded mountain belts, volcanic terrains, and fossil-bearing rocks. Rock and fossil collecting may be done in some cases; students taking field geology will gain a greater appreciation of the Earth, and they will acquire enhanced observational skills applicable to any field-based profession and appreciation of using Earth as a laboratory. Topics in related field(s) may be included as applicable. This course will meet three to five times prior to a required seven to 10 day field excursion.

1.1

Lab: 3

1.2

Lab: 4

1.2

Prerequisite: Sufficiently high placement test score, or completion of MTH 091 & 092 with a grade of "C" or better, or equivalent.

Credit: 4 semester hours Lecture: 3

GERMAN

- See Modern Languages

GRAPHIC ARTS TECHNOLOGY GAT

Division of Engineering and Technology (815) 921-3101

GAT 101 -**Introduction to Graphic Arts** Technology IAI: None

Introduction to Graphic Arts Technology is a series of lectures, discussions, presentations, laboratory experiences, and field trips designed to orient students to the breadth of the graphic arts industry. Topics discussed include the historical aspects of the industry as well as the current technology utilized in the production of printed matter. Prerequisite: None

Credit: 4 semester hours Lecture: 2

GAT 105 -**Basic Photography**

IAI: None

Basic Photography is a systematic approach to mastering the fundamental techniques and concepts of photography. Emphasis is placed on operation of photographic equipment using black and white materials and processing procedures. Photographic principles covered include light and its characteristics, depth-of-field, and composition. Use of these principles leads the student from an original idea to the creation of black and white photographs. Prerequisite: None Credit: 3 semester hours Lecture: 2 Lab: 2

GAT 110 -Introduction to Photoshop IAI: None

1.2 Introduction to Photoshop will familiarize the student with the composition and editing capabilities of Adobe Photoshop. This course is laboratory-based and each student will be required to complete a variety of activities utilizing the software. Prerequisite: None Credit: 2 semester hours Lah 2 Lecture: 1

GAT 115 -

Introduction to Illustrator IAI. None

Introduction to Illustrator orients the student to vector-based graphic design software to create original artwork as well as modify and recreate existing files for production output. Prerequisite: None Credit: 2 semester hours Lecture: 1 Lab: 2

GAT 150 -Typography

IAI: None

1.2 Typography explores the structure, personality and history of type. Fundamental typographic principles, font recognition and analysis of both historical and postmodern design theory will be covered. Emphasis will be on content, form and technique for the effective use of typography in ads, posters, newsletters and other visual communications. Prerequisite: GAT 101 or consent of the instructor Credit: 2 semester hours Lecture: 1 Lab: 2

GAT 168 -

Graphic Arts Technology Internship IAI: None Graphic Arts Technology Internship

requires a supervised experience in a graphic arts production facility using a cooperative training plan agreed to by the instructor, participating firm, and student. The student must submit an application to the instructor prior to mid-term of the previous semester and requires consent of the instructor or division director. Variable and repeatable credit may be earned up to six hours

Prerequisite: Current enrollment in the Graphic Arts Technology curriculum, completion of at least 12 credits in GAT courses, and sophomore class standing. Credit: 1-6 semester hours Lecture: 0 Lab: 5-30

GAT 178 -**Fundamentals of Desktop** Publishing

IAI: None

1.2 Fundamentals of Desktop Publishing is a continuation of the computer skills learned in GAT 101. This course will explore the basics of graphic design, typography, layout and technical issues for desktop publishing. This course reinforces the use of current computer software including

Adobe Illustrator, Adobe Photoshop, and QuarkXPress. Prerequisite: GAT 101 or consent of the instructor. Credit: 3 semester hours Lecture: 2 Lab: 2

GAT 180 -

Introduction to Press Operation IAI · None

Introduction to Press Operation provides the student with an introduction to small offset press operation. Projects will be run on an offset duplicator with instruction in setup, single-color printing, cleanup, and safety. Discussions will include the topics of infeed systems, registration, dampening, and inking systems. Prerequisite: GAT 101 or consent of the

instructor. Credit: 4 semester hours Lecture: 2 Lab: 4

GAT 190 -

19

Image Generation and Output 12 IAI: None

Image Generation and Output explores the creation and output of digital files for printing and publishing. Instruction and laboratory experience includes the application of current computer software, digital technology, creation, setup, and use of plates, and other input and output devices. Prerequisite: GAT 101 Credit: 2 semester hours Lecture: 1 Lab: 2

GAT 211 -

Advanced Photography

1.2 IAI: None Advanced Photography studies control of perspective through large format camera movements. The concept of the Zone System, along with a historical perspective of photography, is covered. Other topics include high-contrast processes, hand coloring and optics. Prerequisite: GAT 105 or consent of instructor. Credit: 3 semester hours Lecture: 2 Lab: 2

GAT 215 -

Advanced Illustrator IAI: None Advanced Illustrator builds upon skills learned in GAT 115 such as pen tool techniques, object binding, pathfinders and filters and effects. Additional topics include brushes, patterns, appearance palettes, 3D

effects and live tracing. Projects include technical drawings, artistic renderings and 3D object creating. Prerequisite: GAT 115 or consent of instructor Credit: 2 semester hours Lecture: 1 Lab: 2

12

GAT 220 -**Advanced Photoshop for the Graphic Arts Industry**

IAI: None 12 Advanced Photoshop for the Graphic Arts Industry involves a more intensive study of digital image manipulation. Topics include advanced layering techniques, use of channels, duotones, and output specific to the printing and publishing industry. Prerequisite: GAT 110 or consent of instructor. Credit: 3 semester hours Lecture: 2 Lab: 2

GAT 241 -Intermediate Desktop Publishing IAI: None

Intermediate Desktop Publishing continues from GAT 178 into more advanced concepts and applications of computer-based composition systems for the graphic arts industry. Topics and projects include: creation of multi-page documents, advertisements, product packaging, large format designs, and file and font management. Prerequisite: GAT 178 Credit: 4 semester hours Lecture: 2 Lab: 4

GAT 242 -**Advanced Desktop Publishing**

1.2 IAI: None Advanced Desktop Publishing continues from GAT 241 to more advanced concepts and applications of preflighting, color separations, impositioning, indexing of multipage documents, duotones to quadtones, scanning transparencies, and trapping. Prerequisite: GAT 241 Credit: 3 semester hours Lah. 2 Lecture: 2

GAT 250 -**Special Topics in Graphics Arts** Technology

IAI: None 12 Special Topics in Graphic Arts Technology explores specific applications, skills, or interest in graphic technology. A special topic requires: adequate and available materials on a specific graphic arts related issue, a comprehensive course outline. instructor expertise, student and community interest, and ability to increase skill and/or knowledge in graphic arts technology. Variable and repeatable credit up to six credit hours may be earned. This course may be repeated three times. Prerequisite: Determined by the special topic and consent of instructor. Credit: 1-6 semester hours Lecture: 1-6 Lab: 0-4

GAT 255 -

Color System Management IAI: None

Color System Management applies color theory to the practical management of color in a production environment. Topics include: color theory, color measurement, establishing scanner and monitor color profiles, proofing, and press calibration. Students will learn to develop a system to

achieve predictable and consistent color reproduction. Prerequisite: GAT 220 Credit: 3 semester hours Lecture: 2 Lab: 2

GAT 260 -**Estimating for Graphic Arts** Production

IAI: None

12 Estimating for Graphic Arts Production explores the manual and electronic method for pricing production printing jobs. Major emphasis is on estimating photo lithographic work but other types of production will be discussed. Field trips, class discussion and laboratory case studies will allow the student a variety of estimating experiences. Instruction will include the manufacture of paper and inks. Prerequisite: GAT 190 and GAT 290, MTH 115 or MTH 120, or consent of instructor. Credit: 3 semester hours Lecture: 3 Lab: 0

GAT 280 -

Press Operation II IAI: None

Press Operation II continues from GAT 180 to cover more intricate applications and build skills utilizing a small offset press Topics and related student projects include: press measurement techniques, ink density, conductivity, critical registration, multicolor runs, and press maintenance. Prerequisite: GAT 180 Credit: 4 semester hours Lecture: 2 Lab: 4

GAT 290 -Finishing, Bindery and Variable **Data Applications**

IAI: None 1.2 Finishing, Bindery and Variable Data Applications is an introduction to finishing and binding techniques, the operation of paper drills, saddle stitchers, programmable cutters, and paper folders for a variety of laboratory projects. Also covered is variable data control using a variety of software programs. Lectures and discussions as well as tours will be used to introduce complex finishing techniques not available in our classroom.

Prerequisite: GAT 101 or consent of instructor

Lecture: 2

GAT 298 -

1.2

Independent Study in Graphic Arts IAI: None

Independent Study encourages individual projects or research of special interest related to Graphic Arts Technology. The student must submit an application to the division director prior to mid-term of the prior semester for a specific topic in cooperation with a qualified instructor. Approval of the topic and study plan by the instructor and division director is required. Variable and repeatable credit up to six credit hours may be earned. This

course may be repeated three times. Prerequisite: Current enrollment in the Graphic Arts Technology curriculum, completion of a minimum 21 credits in GAT courses, and sophomore class standing. Credit: 1-6 semester hours Lab: 5-30 Lecture: 0

HLT HEALTH

Division of Allied Health and Human Services (815) 921-3200

HLT 101 -

Introduction to Healthcare Careers IAI · None

Introduction to Healthcare Careers provides an introduction to healthcare and healthcare careers. Topics include health, illness, lifestyles and common illnesses; human response to illness and the needs of clients who are experiencing illness, healthcare delivery systems and important issues for healthcare systems and care providers; and employment and careers in healthcare. Cultural diversity issues are addressed as they relate to course topics. Prerequisite: None Credit: 2 semester hours Lecture: 2 Lab: 0

HLT 105 -Phlebotomy

1.2

IAI: None

1.2

Phlebotomy involves teaching of techniques for the purpose of obtaining blood samples by venipuncture, micropuncture and arterial puncture. Medical and laboratory terminology, anatomy of the circulatory systems, interpersonal communication, laboratory safety, and laboratory clerical procedures are studied. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HLT 110 -**Medical Terminology**

IAI: None

1.2

Medical Terminology provides study of a wide range of medical terminology. The course is of value to those preparing for careers as health care providers and for diagnostic careers. It is also of value to those preparing for medical office careers, including Medical Office Assistant, Medical Transcriptionist, Medical Coding, and others. Course content includes building medical terms from word parts and specific medical terms relating to body systems, diseases, diagnosis, surgical and medical care, abbreviations, medications, and other medical terms. Prerequisite: None Credit: 2 semester hours

Lecture: 2

Lab.0

Credit: 3 semester hours Lab: 2

HISTORY

Liberal Arts Division (815) 921-3338

HST 140 -**History of Western Civilization I**

IAI: S2 902, HST 913 1.1 History of Western Civilization I includes prehistoric people, the ancient cultures, Greek and Roman civilization, the Middle Ages, the Renaissance and the Reformation. The evolution of people from the earliest times to the 17th century is covered. Prerequisite: None Credit: 3 semester hours Lab: 0 Lecture: 3

HST 141 -

History of Western Civilization II

IAI: S2 903, HST 914 1.1 History of Western Civilization II covers the evolution of Western people from the 17th century to the present. The development of Western institutions of government, the modern state system, international relations, and the cultural and intellectual development of the West are treated. Prerequisite: None

Credit: 3 semester hours Lab: 0 Lecture: 3

HST 142 -History of the United States to 1865

IAI: S2 900

History of the United States to 1865 begins with the background to and development of the American colonies, continues with the American Revolution, Constitution, Federal Period, Age of Jefferson, National Period, and Age of Jackson and concludes with the background to the Civil War and Reconstruction. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HST 143 -**History of the United States Since** 1865

IAI: S2 901 1.1 History of the United States Since 1865 begins with the problems of Reconstruction, proceeds to the American Industrial Revolution and its effectsurbanism, culture, politics of the Guilded Ages, Imperialism, Progressivism-continues with the 20th century and the United States' role in World War I, 1920s, Depression and its role in World War II and concludes with the United States since World War II. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HST 144 -

HST

1.1

Current History 1945 to the Present IAI: None 11

Current History 1945 to the Present is a historical analysis of the contemporary world in its national and international setting from 1945 to the present that is divided into 1945-1960, 1960-1972, 1972-1980, 1980-1991, and current events. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HST 151 -African History Survey to 1600

IAI: S2 906N 1 1 African History Survey to 1600 includes the geography, the culture, languages, and the political and social institutions of the African people. Emphasis will be placed upon the birth of man, prehistory, ancient and medieval civilizations and kingdoms, initial contact with Europe and the beginning(s) of the slave trade. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HST 152 -African History Survey Since 1600

IAI: S2 907N 11 African History Survey Since 1600 covers the slave trade, roots of European expansion colonialism and the scramble for Africa, the Berlin Conference and the partitioning, the growth of nationalism, the fight for independence, neocolonialism, and the emergence of the modern African nation. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HST 162 -History of Latin America I IAI · S2 910N

History of Latin American I is an introductory survey course that focuses on the political, social and economic history of the principal Latin American nations, including the origins and development of its peoples and cultures from ancient civilizations to the European conquest. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HST 163 -History of Latin America II IAI: S2 911N

11 History of Latin America II is a continuation of History of Latin America I. This course focuses on the political, social, economic and cultural history of the principal Latin American nations from the late Colonial period to the present. Major influences, forces, and personalities will be studied. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HST 172 -History of the Middle East I

IAI: S2 918N 1.1 History of the Middle East is an introductory survey of the political, social and economic history of the principal Middle Eastern countries, including the origins and development of the peoples and cultures. The course focuses on major movements, influences and personalities that helped shape the Middle East. Among the more important themes will be long-term cultural and social continuities with the Islamic and ancient Near East, and concepts of religious and political authority. Prerequisite: None Credit: 3 semester hours Lecture: 3

Lab: 0

HST 173 -

History of the Middle East II IAI: S2 919N

1.1 History of the Middle East Since 1453 is an introductory survey of the political, social and economic history of the principal Middle Eastern countries, including the origins and development of the peoples and cultures. The course focuses on major movements, influences and personalities that helped shape the Middle East. Among the more important themes will be longterm cultural and social continuities with the Islamic tradition, and concepts of religious and political authority. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HST 182 -

11

History of Eastern Civilization to 1500

IAI: S2 908N 1.1 History of Eastern Civilization to 1500 includes the political and cultural history of India, China, Japan and Southeast Asia. The origins, development and importance of the major religions of Asia will be stressed. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HST 183 -**History of Eastern Civilization** Since 1500

IAI: S2 909N 11 History of Eastern Civilization Since 1500 is a survey of the developments in India, China, Japan, and Southeast Asia since the arrival of the Europeans. The impact of technology from the West upon political ideas, cultural-religious values, and economics will be stressed. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HST 192 -History of the World Until 1750 IAI: S2 912N

1 1 This course provides a survey of world history from the earliest beginnings of humankind until 1750. It will examine the growth and development of the social. political, economic, and cultural institutions of the societies of the world. Prerequisite: None Credit: 3 semester hours Lab. 0 Lecture: 3

HST 193 -**History of the World Since 1750**

IAI: S2 913N 1 1 This course provides a survey of world history from 1750 until the present. It will examine the social, political, economic. and cultural changes in the societies of the world during that time period. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HST 210 -**History of Women of the United** States

1.1

IAI: None History of Women of the United States provides an overview of 400 years of American women's history in all its diversity. Themes will include the private and family experiences of women, the nature of women's work and education, and the political and civic role and activism of women. The grand sweep of American history-colonial settlement and conquest revolution and civil war, the institution of

slavery, industrialization, world wars, and the rise of consumerism, the workings of the welfare state—will provide the backdrop for the story. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HST 244 -**English History I**

11 IAI: None English History I is a survey of English history from ancient origins to 1688. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HST 245 -

English History II IAI: None 1.1 English History II is a survey of English history from 1688 to the present. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HONORS

Honors Program (815) 921-4087

HNR 101, 102, 201, 202 -Honors Study I, II, III and IV 11 IAI: None

These are required courses to be taken during the student's enrollment in the Rock Valley College Honors Program. Students have options each semester in the sequence by selecting from a variety of projects and including both written and oral presentations. First-year students will take HNR101 in the fall semester and HNR102 in the spring semester. Second-year students will take HNR 201 in the fall semester and HNR 202 in the spring semester. Prerequisite: Admission to the Rock Valley College Honors Program Credits: 0.5 semester hours Lecture: 0.5 Lab: 0

HUMANITIES

Liberal Arts Division (815) 921-3317



HUM

1.1

1.1

HUM 111 -Introduction to Humanities I IAI: HF 902

1.1 Introduction to Humanities I (from the Ancient World to 1600) is a basic introduction to the humanities including art, music, literature, philosophy, and history from the ancient periods of Egypt and Mesopotamia to the Renaissance. Differing subject matter and issues will be discussed and analyzed with attention directed to the role of humanities in current society. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HUM 112 -

Introduction to Humanities II IAL: HF 903

Introduction to Humanities II (from 1600 to present) is a basic introduction to the humanities including art, music, literature, philosophy, and history from the Renaissance to modern times. Differing subject matter and issues will be discussed and analyzed with attention directed to the role of humanities in current society. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HUM 114 -Introduction to Humanities III: **Contemporary Western World** IAL: HF 901

This course is an interdisciplinary, thematic survey of the history, philosophy, art, music, and literature of the Western World from the beginnings of the 20th century to the present. Using an historical framework extending back to the concept of "modernism" as defined by antiquity through contemporary times, students will examine the connections between earlier concepts of modernism and those of



their own time, ultimately recognizing contemporary themes, genres, and relationships within the humanities. Emphasis will be on the relevance of these trends on current society and implications for the future. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HUM 115 -

Cultural Pluralism in America IAI: None

11 This course is an exploration of various racial and ethnic groups in the United States. The course will examine the history, communication, and dynamics of minority traditions in America including blacks, Hispanics, Asians, and others. Majorityminority relationships will be analyzed. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HUM 117 -**Ethnic Traditions in American** Theatre IAI: F1 909D

11 This course involves reading and writing about American plays that dramatize racial and ethnic minorities struggling to construct identities in a society influenced by dominant myths concerning gender, family, success, race, equality, and freedom. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HUM 120 -

Hispanic Caribbean Cultural Expression

IAI: HF 904N 1.1 Hispanic Caribbean Cultural Expression is an interdisciplinary survey of the significant intellectual and artistic achievements of selected Latin American cultures through works which may include literature, philosophy, visual art, architecture, music, and film. Selected works will show the transformation from a colonial culture following the European model to a gradual development of a national identity and culture. The selected Latin American culture will be announced in the schedule of classes. The course will be taught in English. Prerequisite: None

Credit: 3 semester hours Lecture: 3 Lab: 0

HUM 121 -**U.S. Latino/Latina Cultural** Expression

IAL HF 906D 11 U.S. Latino/Latina Cultural Expression is an interdisciplinary study of the cultural identities of U.S. Latinos/Latinas. Using an historical framework, students will be introduced to the literary, artistic, and sociopolitical contributions from this minority to U.S. culture. The class will explore issues of adaptation, marginalization, changing gender roles, and the search for self and place in a bilingual-bicultural society. This class will be taught in English. Prerequisite: None

Credit: 3 semester hours Lecture: 3

HUM 122 -**Spanish Cultural Expression** IAI: HF 902

Spanish Cultural Expression is a chronologically-organized interdisciplinary survey of the significant intellectual, literary, philosophical, visual art, music and other performing art expressions from the major epochs of modern Spain. This class may include a travel experience where the culture will be studied on-site. This class will be taught in English. Prerequisite: None Credit: 3 semester hours Lab. 0 Lecture: 3

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HUM 125 -**Introduction to Non-Western** Humanities

IAI: HF 904N 11 A guided, interdisciplinary exploration of the humanities, focusing on non-western perspectives and traditions. Works and issues in art, music, architecture, literature, philosophy, religion and performance will be studied, both within a particular cultural formation (such as Middle Eastern, Asian, African, South American) and also through a comparative examination of their values, motifs and aesthetics with those of western cultural expression. Prerequisites: None Credit: 3 semester hours Lab: 0 Lecture: 3

HUM 210 -**Cultural Expression of Gender in** the Visual and Performing Arts IAI: F 2 907D

Cultural Expression of Gender in the Visual and Performing Arts is the interdisciplinary study of art, architecture, music, theatre performance, and dance that focuses on the experience and construction of gender identity in Western culture. Prerequisite: None Recommended: Prior study of or experience in art, architecture, music, theatre performance and/or dance. Credit: 3 semester hours Lecture: 3 Lab: 0

HUM 211 -War and Western Humanities Through the Middle Ages IAI: HF 900

11 War and Western Humanities Through the Middle Ages is a survey course which explores the theme of war as represented in the history, art, literature, music and philosophy of the Western World from the earliest civilizations of Mesopotamia and Egypt through the Middle Ages. Special emphasis may be placed on specific conflicts (i.e., The Macedonian Wars, The Peloponnesian War, The Punic Wars, The 100 Years War, etc.) while placing these in the larger context of the theme of humanism and war. The content of the course will lead to considerations of its relevance in the conflicts of the present day and their representations in current art, literature, music, and philosophy. Prerequisite: None Credit: 3 semester hours Lab: 0

Lecture: 3

HUM 212 -War and Western Humanities from the Renaissance to the Present IAI: HF 901 11

War and Western Humanities from the Renaissance to the Present is a survey course which explores the theme of war as represented in the history, art, literature, music and philosophy of the Western World beginning with the Renaissance through modern times. Special emphasis may be placed on specific conflicts (i.e. The Thirty Years War, The French Revolution, The American Revolution, World Wars I and II, Vietnam, etc.) while placing these in the larger context of the theme of humanism and war. The content of the course will lead to considerations of its relevance in the conflicts of the present day and their representations in current art, literature, music and philosophy. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HUM 250 -

Leadership Development Studies IAI: None 11 This course is a comprehensive analysis of the traits and values inherent in effective leaders. Speeches, biographies, essays, literary classics and films are examined in a

collegial, self-directed environment to facilitate class discussions. Phi Theta Kappa, the national community college honor society, provides text materials and certifies the course instructors. Prerequisite: None Credit: 3 semester hours Lab: 0 Lecture: 3

See also LITERATURE, **MODERN LANGUAGES**, **PHILOSOPHY** for other cours-

es that satisfy the Humanities requirement for General Education.

HUMAN SERVICES HSR

Division of Allied Health and Human Services (815) 921-3200

HSR 101 -**Introduction to Human Services** IAI: None

1.2 Introduction to Human Services provides a basic overview of the human service field, professions, philosophical approach to helping, and how human services agencies are organized and function. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

HSR 102 -Introduction to Group Processes

IAI: None 12 Introduction to Group Processes focuses on building knowledge and skills for effective interpersonal relationships in organized groups. Theories of group dynamics and their relevance for human service workers are presented. The course also focuses on the functioning and dynamics of the interdisciplinary team. Students will experience the group process by working in small groups as part of the course. (Offered spring semester.) Prerequisite: HSR 101 and ENG 101 or instructor permission Credit: 3 semester hours Lecture: 3 Lab: 0

HSR 110 - Survey of Counseling Theories 12

IAI: None Survey of Counseling Theories is an introductory examination of the major approaches to counseling and how counseling can be used to help people change problem behaviors. It includes discussion of factors in the healthy personality. Applications to treatment of addictions is also covered. (Offered fall semester.) Prerequisite: HSR 101 and ENG 101 or instructor permission Credit: 3 semester hours Lecture: 3 Lab. 0

HSR 120 - Introduction to **Developmental Disabilities** IAI: None

12 Introduction to Developmental Disabilities includes an introductory survey of etiologies, characteristics, treatment and prognosis of developmental disabilities. It covers a discussion of the disabled client's psychosocial, neurological, sensorial, intellectual, and physical abilities and disabilities. Includes discussion of the effect on the family and the role of society as it pertains to the developmentally disabled. (Offered fall semester.) Prerequisite: HSR 101 and ENG 101 or instructor permission Credit: 3 semester hours Lecture: 3 Lab: 0

HSR 140 - Survey of Psychiatric Rehabilitation IAI · None 19

Survey of Psychiatric Rehabilitation focus-

es on the rehabilitative approach to serving individuals with severe mental illness. The approach is based on the premise that consumers will set goals for the rehabilitation team. The course covers psychiatric disability, current approaches to treatment, the mental health system, vocational and skills training, and family and community support systems.

Prerequisite: HSR 101 and ENG 101 or $instructor\ permission$ Credit: 3 semester hours Lecture: 3 Lab: 0

121

HSR 201 -**Interpersonal Behavior** IAI: None

1.2 Interpersonal Behavior focuses on building knowledge and skills for effective interpersonal relationships. Experientially structured activities provide students with opportunities to practice the skills learned in class. (Offered fall semester.) Prerequisite: HSR 101 and ENG 101 or instructor permission Credit: 3 semester hours Lecture: 3 Lab: 0

HSR 203 -

Family Services

IAI: None 1.2 Family Services offers an introduction to the multi-problem family and an awareness of the methods used to solve these problems. Included are theories of family dysfunction: how to help families improve how they function; and about systems theories. Addiction and co-dependency are also explored. (Offered spring semester.) Prerequisite: HSR 101 and ENG 101 or instructor permission Credit: 3 semester hours Lecture: 3 Lab: 0

HSR 205 -**Field Placement I**

IAI: None

Field Placement is on a part-time basis in a supervised experience with a cooperating agency selected by the student and the instructor. Students are to have 300 hours of internship to graduate from the program. The last 100 hours of internship will need to be completed through enrollment in HSR 206 Field Placement II. No more than 100 hours of credit can be given for experiences accumulated prior to entrance in the program. Students may register for 1-4 hours of credit a semester. Fifty hours of internship is required for each hour of credit. At least one of the internships must be a 100-hour placement.

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Prerequisites: Students without prior, significant human service experience should not take this course until they attain second semester status (12 credits in the Human Services curriculum) Credit: 1-4 semester hours Lecture: 1 Lab: 5-10

HSR 206 - Field Placement II

IAI: None

Students enrolled in HSR 206 Field Placement II will complete their final 100 hours of internship required for graduation from the Human Services Program. Through this experience they will successfully demonstrate their integration of the human services professional competencies by completing a capstone project drawing on their acquired learning from the Human Services Program's coursework. Students will also take a comprehensive examination which draws on key human services

theories, concepts, and methods acquired through the Human Services Program coursework.

Prerequisites: Completion of four credits of HSR 205 Field Placement I with a grade of C or better, AND Completion of 54 of the required 67 credits towards the A.A.S. degree in Human Services OR enrollement in the final semester of the A.A.S. in the Human Services degree requirements. Credit: 2 semester hours

oreau. 2	semester	nours		
Lecture:	1		Lab:	10-20

HSR 211 -

Interviewing Techniques IAI: None

Interviewing Techniques provides a discussion of the theory and practice of skills needed for effective intake interviewing, information gathering, and assisting professionals in their relations with individual clients. (Offered spring semester.) Prerequisite: HSR 101 and ENG 101 or instructor permission Credit: 3 semester hours Lecture: 3 Lab: 0

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HSR 231 -

Substance Abuse Treatment IAI: None

Substance Abuse Treatment explores methods of intervention and treatment in the field of addiction. Issues to be discussed include assessment, data gathering, report writing, charting, treatment plans, and current approaches to individual and group treatment. Prerequisite: HSR 101 and ENG 101 or instructor permission Credit: 4 semester hours Lab: 0 Lecture: 4

HSR 232 -**Substance Abuse Rules and** Regulations

IAI: None 1.2 Substance Abuse Rules and Regulations explores the governing process concerning substance abuse treatment in the field of addiction. Issues to be discussed include assessment, data gathering, report writing, charting, treatment plans, and current approaches to individual and group treatment.

Prerequisite: HSR 101 and ENG 101 or $instructor\ permission$

Creatt: 3	semester	nours		
Lecture:	3		Lab:	0

HSR 250 -

Special Topics in Human Services IAI: None 1.2

Special Topics in Human Services is designed to satisfy specific needs or interests of Human Services majors and/or the community. The course topics change as special needs and interests arise. Prerequisite: HSR 101 and ENG 101 or instructor permission Credit: 1-6 semester hours Lecture: 1-6 Lab: 0

HSR 260 -**Independent Study in Human Services**

IAI: None 12 Independent Study in Human Services is designed to offer students an opportunity to conduct an individual project or research in areas of special interest in human services. Course requirements are based on the nature of the subject under study. Prerequisite: Enrollment in the Human Services program, the completion of 12 hours of credit at Rock Valley College, and the consent of instructor or division director Credit: 1-6 semester hours Lecture: 1-6 Lab: 0

INDEPENDENT STUDY

IDS 299 -**Independent Study**

IAI: None 1.1 Independent Study is an opportunity for students to do extended work in a given liberal arts discipline, with minimal faculty contact. IDS 299 may not be used to provide a substitution for an approved catalog course, nor will it fulfill specific general education requirements toward the A.A./A.S. degrees. Student and sponsoring faculty must file a detailed plan of work and receive both divisional and dean-level approval.

Prerequisite: A 2.5 minimum GPA for 15 college-level credit hours. May be repeated for a maximum of four hours for credit toward A.A./A.S. degrees. Credit: 1-4 semester hours Lecture: 1-4 Lab: 0

JOURNALISM

JRN

IDS

Liberal Arts Division (815) 921-3338

JRN 105 -

Newspaper Production I IAI: None

1.1 Newspaper Production I is a course in which students participate in the production of the college newspaper, The Valley Forge, and meet with the instructor/advisor and the editor(s) to learn and apply the principles and practices of newspaper production in a state-of-the-art, computerized newsroom environment. Prerequisite: None Credit: 1 semester hour Lecture: 0 Lab: 2

JRN 110 -**Newspaper Production II** IAI: None

Newspaper Production II is a continuation of Journalism 105. Emphasis will be placed upon proofreading and copy editing, headline writing, and the elements of good journalistic style. Prerequisite: JRN 105 Credit: 1 semester hour Lecture: 0 Lah· 2

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JRN 122 -Newswriting

IAI· MC 919

Newswriting serves as an introduction to the principles and practices of gathering, evaluating, writing, and editing basic news stories. Students are also instructed in principles of ethical journalism while learning newsroom management skills and techniques that are critical in the writing process. Prerequisite: None

Credit: 3 semester hours Lecture: 3 Lab: 0

JRN 123 -**Feature Writing and Editing** IAI: None

Feature Writing and Editing is an introductory course in preparing feature articles for newspapers and magazines. Students write articles that are generally from two -10 pages long, and they are encouraged to submit their work for publication. Prerequisite: JRN 122 is recommended but not required. Credit: 3 semester hours Lecture: 3 Lab: 0

JRN 135 -**News Editing**

IAI: None 1.1 News Editing is an introduction to print media editing principles and practices, including headline writing and copy editing skills, revision of material for style, newspaper design theory, principles of photo editing, and typography. Prerequisite: JRN 122 or consent of instructor. Credit: 3 semester hours

Lecture: 3 Lab: 0

JRN 139 -**Literary Magazine Production**

IAI: None

Literary Magazine Production is a comprehensive, hands-on introduction to the management of a "little magazine," including creative writing, solicitation of materials, aesthetic decisionmaking, advertising, layout and design, promotion and sales. Field trip to printer required. May not earn more than six credits. This course may be repeated two times. Prerequisite: None Credit: 2 semester hours Lecture: 2 Lab. 0

JRN 146 -Advanced News Writing IAI: None

1.1 Advanced News Writing is a continuation of JRN 122, focusing on investigative reporting, feature writing, series writing, and advanced reporting and writing skills. Prerequisite: JRN 122 or consent of instructor. Credit: 3 semester hours Lab: 0 Lecture: 3

JRN 205 -Newspaper Production III IAI · None

11 Newspaper Production III is a continuation of Journalism 110. Emphasis will be placed upon graphic design theories, principles of page layout and production, and photojournalism. Prerequisite: JRN 110 Credit: 1 semester hour Lecture: 0 Lab: 2

JRN 210 -Newspaper Production IV

IAI: None 11 Newspaper Production IV is a continuation of Journalism 205. Emphasis will be placed upon editorial practice and opinion writing and advanced design theories. Prerequisite: JRN 205 Credit: 1 semester hour Lecture: 0 Lah 2

LIT

LIFE SCIENCE

- See Biology

LITERATURE

Liberal Arts Division (815) 921-3338

LIT 139 -**Mythology**

IAI: H9 901 1.1 Mythology is an introductory course in reading and analyzing the more important myths. studying what distinguishes mythology from other story forms, and noting the influences of mythology on traditional literature. A typical literature course approach will be used in that the basic format will consist of reading, analysis, and discussion. Prerequisite: ENG 099 with a grade of "C" or better; or sufficiently high English placement score. Credit: 3 semester hours Lecture: 3 Lab: 0

LIT 140 -The Bible as Literature IAI: H5 901

1.1 The Bible as Literature is an introduction to the literature of the Bible: the quality and style of its literary forms and its influence on English and American literature. Prerequisite: ENG 099 with a grade of "C" or better; or sufficiently high English placement score. Credit: 3 semester hours Lecture: 3 Lab: 0

LIT 141 -Film as Literature

IAI: F2 908 11 Film as Literature is an examination of the relationships and interactions between film and literature through comparative study, including literary aspects of film, aural and visual adaptations, and techniques and criticism common to both areas. Prerequisite: ENG 099 with a grade of "C" or better; or sufficiently high English placement score. Credit: 3 semester hours Lecture: 3 Lab. 0

LIT 142 -

Introduction to Poetry IAI: H3 903

11 Introduction to Poetry involves instruction and practice in close reading of poetry, focusing on reading, discussing, and writing effectively about a range of poems, not an historical survey. Students will be able to use relevant critical terms in their analyses of poems; to discuss poetic forms, genres, and techniques in an informed way; and to deal effectively with questions of interpretation. Prerequisite: ENG 099 with a grade of "C" or better; or sufficiently high English placement score. Credit: 3 semester hours Lecture: 3 Lab: 0

LIT 143 -

Introduction to Drama IAI: H3 902

Introduction to Drama involves reading and discussion of representative plays, ranging from classical to modern drama, with some attention to dramatic and theater criticism. Students will be able to use relevant critical terms in their analyses of plays, will analyze and interpret individual works, and will become familiar with such dramatic genres as tragedy, comedy, melodrama, and farce. Students will write effective analyses and interpretive (expository) essays on plays and their conventions. Prerequisite: ENG 099 with a grade of "C" or better; or sufficiently high English placement score. Credit: 3 semester hours Lecture: 3 Lab: 0

LIT 144 -Introduction to Fiction

IAI: H3 901 11 Introduction to Fiction involves reading and discussion of representative short stories and novels from a range of literatures, with some attention to critical work on fiction. Students will increase their enjoyment and appreciation of fiction by reading a variety of works and writers; come to understand the forms and functions of prose fiction; be able to use relevant critical terms effectively; and analyze and interpret prose fiction both in class discussion and in formal critical essays. Prerequisite: ENG 099 with a grade of "C" or better; or sufficiently high English placement score. Credit: 3 semester hours Lecture: 3

123 Lab: 0

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LIT 155 -**Contemporary Literature** IAI: None

1.1 Contemporary Literature is designed to provide an awareness of the contemporary literary and philosophical trends in poetry, drama, and fiction. Twentieth century British, American, and European authors will be selected, with emphasis on recent works. Prerequisite: ENG 099 with a grade of "C" or better; or sufficiently high English placement score. Credit: 3 semester hours Lecture: 3 Lab: 0

LIT 201 -**American Literature – Colonial** Days to the Civil War IAI: H3 914

11 American Literature - Colonial Days to the Civil War involves a survey of representative works illustrating the development of American literature from its beginnings to the Civil War, with an emphasis on major literary movements understood in relation to their intellectual, social, and political contexts. Written work includes substantial formal essay assignments totaling 9-12 typed pages.

Prerequisite: A grade of "C" or better in ENG 101.

Credit: 3 semester hours Lecture: 3 Lab. 0

LIT 202 -

American Literature - Civil War to the Present

 $IAI \cdot H3 915$ 11 American Literature - Civil War to the Present involves a survey of representative works illustrating the development of American literature from the Civil War to the present, with an emphasis on major literary movements understood in relation to their intellectual, social, and political contexts. Written work includes substantial formal essay assignments totaling 9-12 pages.

Prerequisite: A grade of "C" or better in ENG 101.

Credit: 3 semester hours Lecture: 3 Lab: 0

LIT 205 -

British Literature – Beginning to 1800

IAI: H3 912 11 British Literature Beginning to 1800 involves a survey of representative works illustrating the development of British literature from its beginnings to 1800, with an emphasis on major literary movements understood in relation to their intellectual, social, and political contexts. Written work includes substantial formal essay assignments totaling 9-12 pages. Prerequisite: A grade of "C" or better in

ENG 101. Credit: 3 semester hours

Lecture: 3 Lab: 0

LIT 206 -British Literature - 1800 to the Present

IAI: H3 913 1.1 British Literature 1800 to the Present involves a study of representative works illustrating the development of British literature from 1800 to the present, with an emphasis on major literary movements understood in relation to their intellectual, social and political contexts. Written work includes substantial formal essay assignments totaling 9-12 pages. Prerequisite: A grade of "C" or better in ENG 101

Credit: 3 semester hours Lecture: 3 Lab: 0

LIT 210 -

Women Writers: The Early Years (to 18th Century) 11 IAI: H3 911D

Women Writers: The Early Years will consider ways in which women have presented themselves and have been presented in texts from early history to the mid-to-late 19th century. Works will be primarily by women, from various communities and traditions. LIT 210 will focus on female life cycles and roles, especially as these delineate and reflect women's experience. It will show how a selection of women during this period saw themselves, were seen by others and began to challenge the limits of these perceptions. Written work includes substantial formal essay assignments totaling 9-12 pages.

Prerequisite: A grade of "C" or better in ENG 101 or consent of instructor. Credit: 3 semester hours Lecture: 3 Lab: 0

LIT 211 -Women Writers: The 19th & 20th Centuries IAI · H3 911D

11 Women Writers: The 19th & 20th Centuries will consider ways in which women have presented themselves and have been presented in texts from the mid-to-late 19th century to the present. Works will be primarily by women, from various communities and traditions. LIT 211 will focus on ways in which women have not only questioned the limits of traditional roles but also have created new ways to perceive, reflect, and transform their experience. Written work includes substantial formal essay assignments totaling 9-12 pages.

Prerequisite: A grade of "C" or better in ENG 101 or consent of instructor. Written work includes substantial formal essay assignments totaling 9-12 pages.

Credit: 3 semester hours Lecture: 3 Lab: 0

LIT 241 -Shakespeare

IAI: H3 905 1.1 Shakespeare is a first course in the works and world of Shakespeare that focuses on reading, discussion, and criticism of the major histories, comedies, tragedies, problem plays and poetry. Written work includes substantial formal essay assignments totaling 9-12 pages. Prerequisite: A grade of "C" or better in ENG 101 or consent of instructor. Credit: 3 semester hours Lecture: 3 Lab: 0

LIT 243 -

Masterpieces of World Literature Through 1800 IAI: H3 906

11 Masterpieces of World Literature Through 1800 is a study of major literary works of Western civilization from Greek epics and drama through selected prose, verse, and drama of the 18th century. Written work includes substantial formal essay assignments totaling 9-12 pages.

Prerequisite: A grade of "C" or better in ENG 101 or consent of instructor. Credit: 3 semester hours Lecture: 3

Lab: 0

LIT 244 -

Masterpieces of World Literature Since 1800

IAI: H3 907 11 Masterpieces of World Literature Since 1800 is a continuation of the study of major literary works in Western civilization from the Enlightenment through the Romantic period and Realism-Naturalism to the present. Written work includes substantial formal essay assignments totaling 9-12 pages.

Prerequisite: A grade of "C" or better in ENG 101 or consent of instructor. Credit: 3 semester hours Lecture: 3 Lab: 0

LIT 251 -**Non-Western Literature** Before 1800

IAI: H3 908N

1.1

Non-Western Literature Before 1800 involves an introduction to literature in English by writers from non-Western cultures-Asian, South Asian, African, Caribbean Middle-Eastern etc —with an emphasis on the intellectual, social, and political contexts of their works before 1800. Written work includes substantial formal essay assignments totaling 9-12 typed pages. Prerequisite: A grade of "C" or better in ENG 101. Credit: 3 semester hours Lecture: 3 Lab: 0

LIT 252 -

Non-Western Literature Since 1800 IAI: H3 908N

Non-Western Literature Since 1800 involves an introduction to literature in English by writers from non-Western cultures-Asian, South Asian, African, Caribbean, Middle-Eastern-with an emphasis on the intellectual, social, and political contexts of their works after 1800. Written work includes substantial formal essay assignments totaling 9-12 typed pages. Prerequisite: A grade of "C" or better in ENG 101 Credit: 3 semester hours Lecture: 3 Lab: 0

LIT 260 -**Contemporary African Literature**

IAI: H3 908N 1.1

Contemporary African Literature is a survey course designed to introduce students to the post-1920 works of some major African writers. Selected contemporary works representing a cross-section of Africa will be studied. Written work includes substantial formal essay assignments totaling 9-12 pages. Prerequisite: A grade of "C" or better in ENG 101 Credit: 3 semester hours Lecture: 3 Lab: 0

LIT 273 -**French Literature in Translation**

IAI: H3 909 11 French Literature in Translation surveys

representative works illustrating the development of French literature from the Middle Ages to the present with an emphasis on literary movements understood in relation to their intellectual, social, and political contexts. Written work includes substantial formal essay assignments totaling 9-12 pages.

Prerequisite: A grade of "C" or better in ENG 101.

Credit: 3 semester hours Lecture: 3 Lab: 0

LIT 274 -

Spanish Literature in Translation IAI: H3 909 11

Spanish Literature in Translation is an introductory course in which all works are read and discussed in English. Students are not required to have any previous knowledge of Spanish language or culture. The course surveys representative works illustrating the development of Spanish literature from the Middle Ages to the present, with an emphasis on literary movements understood in relation to their intellectual, social and political contexts. Written work includes substantial formal essay assignments totaling 9-12 pages. Prerequisite: Satisfactory completion of the first general education writing course (ENG 101) with a grade of "C" or better.

Credit: 3 semester hours Lab: 0 Lecture: 3

LIT 275 -Latin American Literature in Translation

IAI: H3 909 1.1 Latin American Literature in Translation is an introductory course in which all works are read and discussed in English. Students are not required to have any previous knowledge of Latin American languages or culture. The course surveys representative works illustrating the development of Latin American literature from the Middle Ages to the present, with an emphasis on literary movements understood in relation to their intellectual, social, and political contexts. Written work includes substantial formal essay assignments totaling 9-12 pages. Prerequisite: Satisfactory completion of the first general education writing course (ENG 101) with a grade of "C" or hetter Credit: 3 semester hours

Lecture: 3 Lab: 0

MANAGEMENT

Division of Business/Computers and Information Systems (815) 921-3101

MGT

Lab: 0

Lab: 0

MGT 270 -**Principles of Management** IAI: None

1.2 Principles of Management introduces the basic management functions of planning, organizing, leading, and controlling. Topics include the organizational triangle, strategic planning, managing human resources, decision-making, communication, quality, innovation, conflict management, and ethics. These principles apply to management in all organizations. Prerequisite: BUS 101 or consent of the

instructor. Credit: 3 semester hours

Lecture: 3

MGT 271 -**Human Resource Management**

IAI: None 12 Human Resource Management is a study of the basic principles and procedures of personnel administration. Application of management fundamentals to the personnel function - recruitment, selection, training and development, motivation, compensation, and retirement. Various personnel techniques will be stressed. Prerequisite: BUS 101 and MGT 270 or consent of Associate Dean or instructor. Credit: 3 semester hours

Lecture: 3

MGT 273 -Small Business Management IAI: None

12 The objective of Small Business Management is to acquaint students with the entire entrepreneurial process, including strategy, business startup and operations. The material covered should also benefit the individual who might manage a small business for absentee owners or who might manage a division or department of a major corporation. Prerequisite: BUS 101 Credit: 3 semester hours Lecture: 3

Lab: 0

Lab: 0

MGT 274 -

Leadership

IAI: None 1.2 Leadership is designed to provide workers with techniques, role models and real-life examples that they can use to help them achieve their personal career goals in the workplace. The practical application of the principles learned in Introduction to Business and Principles of Management is the primary emphasis of this course. The student should leave each class with a specific action that can be used on the job the next day that will help them/their company more successfully compete in the marketplace. Prerequisite: BUS 101 or consent of the instructor

Credit: 3 semester hours Lecture: 3

MGT 281 -

Women in Management IAI: None

1.2 Women in Management provides both practical and theoretical materials to help women who aspire to managerial careers. Discussions center on special issues facing women in management. This course is designed for women wanting to move into management, male and female management students and business people seeking to continue or update their education. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

MGT 282 -

Independent Study in Management IAI. None

Independent Study in Management allows the student to conduct research in specialized management areas. The course requirements will be developed based on the nature of the subject and the students goals and objectives. Consent of the coordinator is required.

Prerequisite: Completion of 30 semester hours of credit in the business management curriculum at Rock Valley College. A maximum of 3 hours credit can be earned in this course. Credit: 1-3 semester hours

Lecture: 1-3

Lab: 0

MGT 283 -**Internship in Business** Management

IAI: None

Internship in Business Management provides a supervised occupational experience in business management. A training plan will be developed by the coordinator in cooperation with the student and the participating business. Consent of the instructor is required

Prerequisite: Completion of 30 semester hours of credit in the business management curriculum.

Credit: 6 semester hours

Lecture: 0

Lab: 30

Lab: 2

12

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MANUFACTURING **ENGINEERING** TECHNOLOGY MET

Division of Engineering and Technology (815) 921-3101

MET 100 -**Introductory CAD and Print** Reading IAI: None

1.2 Introductory CAD and Print Reading is designed for the student without recent high school or industrial drafting experience. The basic concepts required to create and interpret industrial drawings are presented and practiced. This course provides fundamental print reading principles with emphasis on symbols and other pertinent data.

Prerequisite: MTH 089 Credit: 3 semester hours Lecture: 2

MFT 102 -**Methods of Statistical Process Control (SPC)**

1.2 IAI: None Methods of Statistical Process Control presents basic statistical concepts, quality tools, common probability distributions, problem-solving techniques, control charts for variable and attribute data, interpretation, Gage R&R, process capability analysis, and acceptance sampling. Instruction and lab exercises integrate management strategies, data planning, cross-functional project teams, and requirements of modern quality standards that lead to successful application of SPC. Prerequisite: MTH 094 Credit: 3 semester hours Lecture: 2 Lab. 2

MFT 105 -**Materials and Processes**

IAI: None Materials and Processes introduces materi-

al properties and attributes of metals, plastics, ceramics, composites, and other materials. The survey of processes includes heat treatment, surface process-

ing, particulate processing, casting, mold-

ing, forming, joining, material removal and other special processing technologies. Theory is illustrated by laboratory experiments and demonstrations along with company visits to view the latest technologies. Prerequisite: MTH 094 Credit: 3 semester hours Lab: 2 Lecture: 2

MET 106 -Metrology IAI: None

1.2 Metrology I introduces the science of measurement for engineering technicians, machinists, and technical personnel through basic measurement principles, selection, operation, and application of English and Metric measuring instruments. Lecture and lab exercises cover basic dimensional metrology, measuring instruments, gaging, high-amplification comparators, surface plate, angular instruments, sine bar, pneumatic gaging, and CMM systems. Related topics introduce data analysis, variable versus attribute, MSA, calibration systems, and modern standards for quality systems and metrology. Prerequisite: MTH 094 Credit: 3 semester hours Lecture: 2 Lab: 2

MET 108 -**Computer Drafting Using AutoCAD**[™] IAI: IND 911

1.2 Computer Drafting Using AutoCADTM introduces computer graphic concepts, hardware, software, and operating principles of a comprehensive PC-based computer graphics system. The student will use AutoCADTM software for all course projects. The latest ANSI/ASME standards will be incorporated throughout the course. Lecture and laboratory projects emphasize drafting principles and techniques necessarv to produce multi-view, auxiliary, and section drawings with appropriate dimensioning practices. Prerequisite: MTH 089

Credit: 3 semester hours Lecture: 2

MET 110 -**Manufacturing Processes I** IAI: IND 913

12 Manufacturing Processes I provides an introduction to machining processes including milling, turning, grinding, drilling, and cutoff operations. Laboratory activities include the fundamentals of machine setup and operations, tooling, precision measurement, process safety, care and maintenance. This course is offered at a regional training center in partnership with Rock Valley College. Prerequisite: MTH 089 Credit: 3 semester hours Lab: 2 Lecture: 2

MET 111 -**CNC** Machine Setup/Operation/Programming

IAI: None 12 CNC Machine Setup/Operation/ Programming studies the setup and operation of computer numerical control (CNC) machine tools. The course is designed to provide knowledge on the latest CNC machines using an online training environment and lab session including turning centers and machining. Exercise and laboratory projects emphasize practical problems, demonstrations, and student operation of CNC equipment. Prerequisite: MTH 089 Credit: 3 semester hours Lecture: 2 Lab: 2

MET 115 -

Introduction to Laser Processes (ICCB approval pending) IAI: None

12 Introduction to Laser Processes is designed to introduce students to the fundamentals of laser processes used in manufacturing. This course will examine the safety, materials, and processes included in laser technologies used in manufacturing. Students completing this course will be qualified for entry level laser processes manufacturing positions and will meet prerequisites for advanced laser process courses. Prerequisite: MTH 089 Credit: 3 semester hours Lecture: 2 Lab: 2

MFT 118 -Intermediate AutoCAD[™] -**Production Drafting** IAI: None

1.2 Intermediate AutoCAD[™] - Production Drafting extends and builds upon current drafting practices for AutoCAD[™] users. Emphasis is placed on the identification and familiarization of techniques that enhance CAD productivity and the production of industrial drawings. This course is intended for students completing a CAD certificate program and is not required for the A.A.S. degree program. Prerequisite: MET 108 Credit: 3 semester hours Lecture: 2 Lab: 2

MFT 120 -

Lab: 2

CNC Machine Setup/Operation IAI: None 12

CNC Machine Setup/Operation studies the setup and operation of computer numerical control (CNC) machine tools. The course is designed to provide knowledge on the latest CNC machines using turning centers and machining centers in the CIM Laboratory. Lecture and laboratory projects emphasize practical problems, demonstrations, and student operations of CNC equipment.

Prerequisite: MTH 089 or consent of instructor. Credit: 2 semester hours

Lecture: 1

Lab: 2

126

MET 121 -**Fundamentals of CNC Programming (Manual)** IAI: None

Fundamentals of CNC Programming (Manual) is a study of the fundamentals of computer numerical control programming for machine tools within the manufacturing environment. Emphasis is on application, operation of a CNC program, tooling and machines Students will write programs and verify them using machine or computer graphics Prerequisite: MET 120

12

Lab: 2

Credit: 2 semester hours Lecture: 1

MET 133 -Graphics/Solidworks™ CAD I IAI: IND 911 1.2

Graphics/Solidworks CAD I introduces computer graphics concepts, hardware. software, and operating principles of a computer graphics system. The student will use SolidWorks[™] software for all course projects. The latest ANSI/ASME standards will be incorporated throughout the course. Lecture and laboratory projects emphasize design principles and techniques necessary to produce solid models. assemblies and multi-view drawings. Prerequisite: MET 092 Credit: 3 semester hours Lab: 2 Lecture: 2

MET 146 -

Hydraulics, Pneumatics and PLCs IAI: None

Hydraulics, Pneumatics and PLCs introduces the basic concepts of fluid power technology including the function of hydraulic and pneumatic components. Emphasis is placed upon the delineation of basic hydraulic and pneumatic circuits. Basic operations and programming of PLCs is also presented. Prerequisite: MTH 094. Credit: 3 semester hours Lecture: 2 Lab: 2

MET 162 -**Applied Physics** IAI: None

1.2 Applied Physics for technical students teaches industrial and technical applications to develop competence in physics and mathematics fundamentals for all technology students. Five major areas of study relating to modern physics for the technician are covered: mechanics, matter and heat, wave motion and sound, electricity and magnetism, and light. Prerequisite: MTH 094. Credit: 4 semester hours Lab: 2 Lecture: 3

MET 215 -Laser Processes I (ICCB approval pending) IAI: None

Laser Processes I is designed to examine different methods of laser cladding. This course will examine important parameters in laser cladding by powder and wire injection. Comparisons between laser cladding and other metallic coating techniques will be identified This course will include the study of laser cladding properties and equipment used in the process. Safety in laser cladding will be introduced during this course. Prerequisite: MET 115 Credit: 3 semester hours Lecture: 2 Lab: 2

MET 217 -Statics

IAI: None

1.2 Statics is an analysis of real force systems by applying the principles of equilibrium to rigid bodies and simple structures. Distributed forces, determination of centroids, analysis of structures, friction and related topics are also presented. Prerequisite: MTH 094 Credit: 3 semester hours Lab: 0 Lecture: 3

MET 218 -**Strength of Materials** IAI · None

Strength of Materials studies the relationship between external forces and the stresses and deformations they produce in a deformable body. Consideration is given to members subjected to tension and compression, torsion and bending related to: loading and deflection of beams and shafts and the buckling of columns. Computeraided design systems will be incorporated where applicable. Prerequisite: MET 217 Credit: 1-3 semester hours

Lecture: 1-3 Lab: 0

MET 220 -Mechanisms

IAI: None

Mechanisms present the study of existing mechanisms, motion characteristics, and the application of mechanism design to provide desired motions. In the motion study, absolute and relative velocities and accelerations are presented. CAM layout is presented in detail as well as the nomenclature and kinematics of gearing. Computer-aided design systems will be incorporated where applicable. Prerequisite: MTH 094 Credit: 3 semester hours Lecture: 3 Lab: 0

MET 221 -Machine Design

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IAI: None 12 Machine Design explores factors that influence materials and application of particular machine elements in their environment. Attention is given to various loading conditions, stresses, and deformations, which must be considered in arriving at a satisfactory design. Elements include: gears, power screws, fasteners, bolted joints, springs and environmental considerations. Computer-aided design systems will be incorporated where applicable. Prerequisite: MET 218 Credit: 3 semester hours Lecture: 3 Lab: 0

MET 225 -Laser Processes II (ICCB approval pending)

1.2 IAI: None Laser Processes II is designed to continue an in depth examination of laser cladding process modeling and operation. Terms and laser cladding process physics are calculated and demonstrated through applied lab exercises. Numerical models and parameters are determined through analysis and experiment. Metallurgical parameters and clad-ability are identified. Solidification conditions and material applications used in laser cladding are studies. Safety in laser cladding is further analyzed and demonstrated through lab exercises. Prerequisite: MET 215 Credit: 3 semester hours Lecture: 2 Lab: 2

MET 226 -

CNC/CAM Operations I IAI: None CNC/CAM Operations I teaches the con-

cepts of Computer Numerical Control for machine tools, tooling, software and operating principles of CNC systems. Students develop part programs using current, industrial CAM software for program generation, editing and tool path verification. Postprocessing and G-M code verification is presented for specific machine tools.. Prerequisite: MET 111 or MET 121 Credit: 3 semester hours Lecture: 2 Lab: 2

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MET 233 -

Graphics/SolidWorks[™] CAD II IAI: None

Graphics/SolidWorks[™] CAD II requires a comprehensive background with Solidworks[™] software and current drafting practices. Lecture and laboratory projects include: surface, solid modeling, parametrics, and assemblies. Rapid prototyping techniques will be introduced. Emphasis is placed on the techniques used to maximize design and drawing productivity. Prerequisite: MET 133 or consent of instructor. Credit: 3 semester hours Lecture: 2 Lab: 2

MET 237 -**Design of Experiments** IAI: None

1.2 Design of Experiments presents the best of Taguchi and Western experimental design techniques for process quality improvement. Students learn the sequential approach. effective setup, quality tools, statistical and graphical analysis, and reporting of DOE. Lecture and lab exercises make extensive use of practical case studies to apply simple response tables, graphical techniques, and computer analysis for process optimization. Prerequisite: MET 102, MET 106 Credit: 4 semester hours Lab: 2

Lecture: 3

MET 240 -**CNC/CAM Operations II**

IAI: None 12 CNC/CAM Operations II is a second course that provides the student with a background in CNC programming using CAM software. Emphasis is placed on the identification and familiarization of techniques that enhance CAM productivity and the production of CNC programs. Students develop part programs using software for program generation, editing and simulation of tool paths. Prerequisite: MET 226 Credit: 3 semester hours Lecture: 2 Lab: 2

MFT 243 -**Continuous Improvement** in Manufacturing

12 IAI: None This course is designed to bring lean manufacturing techniques and training, that are changing the world of manufacturing, into the classroom. Emphasis is placed on continuous improvement, waste elimination, customer focus and elements of lean production. Prerequisite: MTH 092 or consent of the instructor.

Lab: 0

Credit: 3 semester hours Lecture: 3

MET 247 -**Manufacturing Methods, Process Planning and Systems**

IAI: None 1.2 Manufacturing Methods, Process Planning and Systems studies the techniques, equipment and systems for successful manufacturing production. Students learn to plan an operation sequence, determine tooling requirements, and develop and utilize standard data. Lecture and case studies to improve manufacturing systems employ the principles and practices of Just-In-Time (JIT), Total Quality Management (TQM), Computer Integrated Manufacturing (CIM), and Flexible Manufacturing Systems (FMS). Prerequisite: MTH 092 or consent of the instructor.

Credit: 3 semester hours Lab: 0 Lecture: 3

MET 249 -**MET Capstone Project** IAI: None

1.2 A capstone course, emphasizing the solving of technical programs using a multidisciplinary engineering technology approach. The instructor or student may propose an area of investigation. Successful solutions will require that the student use an interactive method using varying degrees of analysis, syntheses and evaluation Information such as vendor catalogs, manuals and library references will be used. The project findings will be presented by the student in both oral and written form

Prerequisite: SPH 131, MET 133, MET 162, MET 218. This course is intended to be taken the final semester prior to graduation. Credit: 3 semester hours

Lecture: 2 Lab: 2

MARKETING

Division of Business/Computers and Information Systems (815) 921-3101

MKT 260 -**Principles of Marketing** IAI: None

Principles of Marketing presents a basic understanding of the principles of marketing and of the operation of our marketing system. Topics include buying motives, habits, demands of consumers, channels of distribution, marketing functions, policies, marketing costs, and governmental relationships. Prerequisite: None Credit: 3 semester hours

Lecture: 3

MKT 265 -Salesmanship

IAI: None 1.2 Salesmanship is the study of personal selling as a part of the marketing process. Consumer behavior, persuasion, the importance of a positive attitude, careers in sales, the sales process, and specific sales techniques are discussed. Optional videotaped presentations and sales projects provide the student with a means of evaluating and improving sales performance. Prerequisite: MKT 260 or consent of instructor. Credit: 3 semester hours Lecture: 3

Lab: 0

MKT 266 -**Principles of Advertising** IAI · None

12 Principles of Advertising is an introduction to advertising. Why advertising is carried on, hot to prepare and present purposeful advertisements, and a review of the various advertising media, as well as when and how to use each to greatest advantage.

Survey of employment opportunities available in advertising. Prerequisite: MKT 260 or consent of instructor Credit: 3 semester hours Lecture: 3 Lab: 0

MKT 281 -**International Marketing**

IAI: None 12 International Marketing allows students to gain a broad understanding of the field of international marketing. The course provides insight into how international marketing is conducted, the requisites for effective performance and knowledge of the special problems involved in language, finance and customs. Most importantly, it assists students in understanding international marketing opportunities and how marketing principles and procedures apply to international business. Prerequisite: None Credit: 3 semester hours Lecture: 3

Lab: 0

MKT 288 -

МКТ

11

Lab: 0

Customer Relations

IAI: None 1.2 Customer Relations is a study of principles and methods to keep customers once you have developed them. Today, it costs five times as much to get a new customer as it does to keep an old one. Discussion is held on a practical level. Topics include customer expectations, staff training and management, maintaining good customer relations, turning service opportunities into sales and changing complaints into orders. Prerequisite: None

Credit: 3 semester hours Lecture: 3 Lab: 0

MKT 293 -Internship - Marketing

IAI: None 1.2Internship - Marketing requires the student to work part-time as a marketing intern in a local cooperating business firm. This experience will be supervised by the coordinator of marketing programs. Consent of the Associate Dean is required. Prerequisite: At least 12 credits in Marketing, previously or concurrently. This course is repeatable three times. Credit: 1-3 semester hours Lecture: 0 Lab: 5-15

MKT 295 -

Independent Study in Marketing IAI: None 19

Independent Study in Marketing allows the student to conduct research in special marketing related areas based on student goals and objectives. Consent of the Associate Dean of the Business Division is required.

Prerequisite: Enrollment in one of the marketing curriculums. This course is repeatable three times. Credit: 1-3 semester hours

Lecture: 1-3

Lab: 0

MASS **COMMUNICATION** СОМ

Liberal Arts Division (815) 921-3317

COM 130 -**Introduction to Mass** Communication

IAI: MC 911 1.1 Introduction to Mass Communication is a primer in terminology, technology, theory, and craft of audio and video production. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

COM 156 -

Audio Production I IAI: MC 915

1.1 Audio Production I is a basic introduction to the equipment, facilities, and terminology of the audio media industry. Students will work on individual and group recording projects including: public service announcements, radio, news and sound effects production. Students will be introduced to sound recording for video and non-linear multi-track audio editing and streaming audio on the Web. Students are required to enroll concurrently in COM 157. Prerequisite: None Corequisite: COM 157 Credit: 3 semester hours Lecture: 2 Lab: 2

COM 157 -**Video Production I**

IAL: MC 916

Video Production I is a basic introduction to the equipment, facilities, and terminology of the video media industry. Students will work in a multiple camera studio producing: newscasts, public service announcements, commercials and talk shows. Students will also be introduced to the fundamentals of script writing, non-linear video editing, field and studio lighting and field production. Students are required to enroll concurrently with COM 156. Prerequisite: None Corequisite: COM 156 Credit: 3 semester hours Lab: 2 Lecture: 2

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COM 246 -

Music Technology IAI: None Music technology is a course designed to teach acoustics, sound recording and sound recording technology to students who are majoring in music. Prerequisites: MUS 111 and MUS 131

Credit: 3 semester hours Lecture: 1 Lab: 4

COM 251 -**Film History and Appreciation** IAI: F2 908

Film History and Appreciation is a survey of film as an art form and an industry. Particular emphasis is placed on lighting, sound, genre

characteristics, image composition, editing, criticism, and social implications. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

COM 252 -International History of Film IAI: F2 909

1.1 International History of Film is a survey of major worldwide film movements genres directors and principal films with the purpose of understanding the social, economic, and political situations that have led to the medium's evolution Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 3

COM 256 -**Advanced Audio Production** IAI: None

11 Advanced Audio Production is designed to give students specialized training in the audio recording industry. Students will work on group projects that include album production, Foley audio production, ADR and advanced non-linear digital multi-track recording. These projects will be completed in the studio and in the field. Prerequisite: COM 156 Credit: 3 semester hours Lecture: 1 Lah· 4

COM 257 -**Advanced Video Production** IAI: None

Advanced Video Production is designed to give students specialized training in the video production industry. Students will produce multiple group and independent projects. These projects include: a weekly television production, music videos, video art projects, short films and documentary. This course will provide students with advanced knowledge of non-linear video editing systems and field camera work. Prerequisite: COM 156 and COM 157 or consent of instructor. Credit: 3 semester hours Lecture: 1 Lab: 4

COM 296

Documentary Production IAI: None

Documentary Production provides students with an overview of the history of the documentary film genre and with the skills necessary to produce a documentary film. Students will explore interview techniques, lighting, editing, and exhibition venues. The course will culminate in the production of a personal documentary. Prerequisite: COM 157 Credit: 3 semester hours Lecture: 3 Lab: 0

COM 297 -

Motion Picture Production IAI: None Motion Picture Production is an advanced

video production course that will allow students to produce a professional quality documentary or fiction film as a group

project. The specific subject of the course will vary each year. Categories include sitcom production, fiction film, and documentary. Prerequisite: COM 256, 257 and consent of instructor. Credit: 3 semester hours Lecture: 1 Lab: 4

COM 298 -

Mass Communication Internship IAI · None Mass Communication Internship provides elective credit for serving as a student intern for a media production facility including Rock Valley College. Students will learn about production equipment, operation, media selection, media planning, scripting, advertising, promotions and internal methodology. Prerequisite: Varies with cooperating agency. Credit: 1-2 semester hours

Lecture: 0 Lab: 2

МТН **MATHEMATICS**

Science Division (815) 921-3471

MTH 086 -

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Basic Math Skills IAI: None

1.4 Basic Math Skills is designed for students who need a review of basic mathematical skills in preparation for further studies in mathematics courses. Topics include operations with whole numbers and fractions. Emphasis is placed on accurate calculations: no calculators will be used through the entire module. Study skills will be incorporated throughout the course. Placement into MTH 086 is according to placement test scores or on a voluntary basis. Credit earned does not count towards any degree, nor does it transfer. Prerequisites: None Credit: 2 semester hours Lecture: 2 Lab: 0

MTH 088 -

Prealgebra Part I IAI: None

1.4

Prealgebra Part I includes a review of basic arithmetic skills while introducing algebra concepts. Topics include operations with whole numbers, integers, fractions, and mixed numbers, solving equations, and problem solving. No calculators will be used through the entire module. Study skills will be incorporated throughout the course Placement into MTH 088 is according to placement test scores or on a voluntary basis. Credit earned does not count toward any degree, nor does it transfer. Prerequisite: MTH 086, or equivalent, with a grade of "C" or higher or appropriate placement score. Credit: 2 semester hours Lecture: 2 Lab: 0

MTH 089 – Prealgebra Part II IAI: None

IAI: None 1.4 Prealgebra Part II continues work in prealgebra concepts. Topics include operations with decimals, ratio, proportion, percent, graphing ordered pairs, introduction to graphing linear equations, geometry, and measurement. Study skills will be incorporated throughout the course. Credit earned does not count toward any degree, nor does it transfer. Prerequisite: MTH 088 with a grade of

"C" or higher Credit: 2 semester hours

Lecture: 2 Lab: 0

MTH 091 – Beginning Algebra Part I

IAI: None 1.4 Beginning Algebra Part I will cover real numbers, solving linear equations and inequalities including applications, and graphing linear equations and inequalities. Study skills will be incorporated throughout the course. Placement into MTH 091 is according to placement test scores or on a voluntary basis. Credit earned does not count toward any degree, nor does it transfer. Prerequisite: MTH 088 and MTH 089, or equivalent, with grades of "C" or higher in both or appropriate placement score.

Credit: 2 semester hours Lecture: 2

Lab: 0

MTH 092 – Beginning Algebra Part II

IAI: None 1.4 Beginning Algebra Part II continues work in basic algebra concepts. It will cover operations on systems of equations in two variables, polynomials, factoring, dimensional analysis, ratio and proportion. Study skills will be incorporated throughout the course. Credit earned does not count toward any degree, nor does it transfer. *Prerequisite: MTH 091 with a grade of* "C" or higher.

Credit: 2 semester hours Lecture: 2 Lab: 0

MTH 093 – Intermediate Algebra Part I

1.4 IAI: None Intermediate Algebra Part I includes a review of topics from beginning algebra with additional work in linear equations and inequalities and systems of equations. The course will also cover absolute value equations and inequalities as well as rational expressions and equations. Placement into MTH 093 is according to placement test scores or on a voluntary basis. Credit earned does not count toward any degree, nor does it transfer. Prerequisite: MTH 091 and MTH 092, or equivalent, with grades of "C" or higher $in \ both \ or \ appropriate \ placement \ score.$ Credit: 2 semester hours Lecture: 2 Lab: 0

MTH 094 -Intermediate Algebra Part II IAI: None

IAI: None1.4Intermediate Algebra Part II covers functions, radicals, and quadratic equations.Credit earned does not count toward anydegree, nor does it transfer.Prerequisite: MTH 093 with a grade of"C" or higherCredit: 2 semester hoursLecture: 2Lab: 0

MTH 096 – Combined Beginning and Intermediate Algebra IAI: None

IAI: None 1.4 Combined Beginning and Intermediate Algebra is a one semester course covering both beginning and intermediate algebra. The topics included are real number operations and properties, linear equations and inequalities, graphing, functions, polynomials, factoring, rational expressions, systems of equations, radical expressions, and quadratic equations. The course will introduce exponential and logarithmic functions if time permits. Credit earned does not count toward any degree, nor does it transfer.

Prerequisite: MTH 088 and MTH 089, or equivalent, with grades of "A" in both or a sufficiently high placement test score or consent of instructor. Credit: 6 semester hours Lecture: 6 Lab: 0

MTH 097 – Elementary Plane Geometry IAI: None

14 Elementary Plane Geometry is a course in the fundamental concepts of geometry intended for students who lack credit in one year of elementary geometry or desire a review of this subject matter. This course is considered equivalent to a one-year course in high school geometry. The topics included are deductive reasoning and proof, congruent triangles, parallel and perpendicular lines, parallelograms and other polygons, ratio and proportion, similarity, right triangles and the Pythagorean Theorem, circles, perimeter, area, volume and construction. Credit earned does not count toward any degree, nor does it transfer.

Prerequisite: MTH 091 and MTH 092, or equivalent, with grades of "C" or higher in both.

Credit: 3 semester hours Lecture: 3

MTH 100 -Technical Mathematics

IAI: None 1.2 Technical Mathematics is primarily for technology students. It is designed for students with a good algebraic preparation and includes basic study and applications of trigonometry. The course includes a study of exponents, radicals, and logarithms.

Prerequisite: Geometry and Intermediate Algebra with grades of "C" or higher in both courses. Credit: 5 semester hours Lecture: 5 Lab: 0

MTH 115 -

General Education Mathematics IAI: M1 904 1.1

General Education Mathematics focuses on mathematical reasoning and the solving of real-life problems, rather than on routine skills and appreciation. Three or four topics are studied in depth, with at least 3 chosen from the following list: geometry, counting techniques and probability, graph theory, logic/set theory, mathematics of finance, and statistics. The use of calculators and computers is strongly encouraged.

Prerequisite: Geometry and Intermediate Algebra with grades of "C" or higher in both courses. Credit: 3 semester hours Lecture: 3 Lab: 0

MTH 120 -College Algebra

IAI: None 11 College Algebra includes a review of intermediate algebra, though it covers the overlapping material more quickly and at a deeper level. The course develops the concept of a function and its graph, inverse functions, exponential functions and their applications, and systems of linear equations and the matrix methods useful in solving those systems. The course will also cover the theory of equations. Optional topics to be covered if time permits are sequences and series, the binomial theorem and mathematical induction. Prerequisite: Geometry and Intermediate Algebra with grades of "C" or higher in both courses. Credit: 3 semester hours Lab. 0 Lecture: 3

MTH 125 -

Lab: 0

Plane Trigonometry

 IAI: MTM 901
 1.1

 Plane Trigonometry is a study of measures of angles, trigonometric functions of acute and general angles, inverse functions, graphs, fundamental identities, trigonometric formulas and equations, applications, vectors, complex numbers, and topics in analytic geometry.

 Prerequisite: MTH 120 or equivalent with a grade of "C" or higher.

 Credit: 3 semester hours

 Lecture: 3
 Lab: 0

MTH 132 -**Precalculus Mathematics**

IAI: None

1.1

Precalculus Mathematics is intended for students preparing for MTH 135 and covers the material of MTH 120 and MTH 125 at a more rapid pace than those individual courses. Among the topics covered in this course are: functions and graphs, including linear, polynomial, rational, exponential, and logarithmic functions: complex numbers and theory of equations; trigonometric functions, their basic properties and graphs; identities; inverse trigonometric functions; trigonometric equations: Law of Sines, Law of Cosines; conics, parametric equations, and polar coordinates. Optional topics will be covered as time permits, e.g. DeMoivre's theorem and Nth roots, sequences, mathematical induction, and the bionomial theorem. Students may not earn more than six credits for any combination of MTH 120, 125. and 132.

Prerequisite: Geometry and Intermediate Algebra with grades of "C" or higher in both courses.

Credit: 5 semester hours Lecture: 5 Lab: 0

MTH 135 -

Calculus with Analytic Geometry I IAI: M1 900-1 IAI: MTH 901

11 Calculus with Analytic Geometry I is a first course in calculus. Topics included are functions, limits, continuity, derivatives, applications of derivatives, integrals, exponential and logarithmic functions, inverse functions. Prerequisite: MTH 120 and MTH 125, or MTH 132, or equivalent with a grade of "C" or higher.

Credit: 5 semester hours Lecture: 5 Lab: 0

MTH 160 -**Topics From Finite Mathematics**

IAI: M1 906 Topics From Finite Mathematics is for stu-

dents enrolled in computers and information systems, business, or the social sciences. Topics include simultaneous equations, matrices, linear programming, mathematics of finance, probability and statistics. This course is not intended to apply toward a major or minor in mathematics. Prerequisite: : MTH 120 or equivalent with a grade of "C" or higher. Credit: 3 semester hours Lecture: 3 Lab: 0

11

MTH 164 -The Computer in Mathematics -C/C++

IAI: None 1.1 The Computer in Mathematics C/C++ is a problem-oriented approach using the computer in the study of mathematics. Programs will be written and run to aid understanding of such topics as infinite series, logical relations, approximations, interpolation, graphing and matrices. Problem formulation, algotrithm development, and aspects of program testing and debugging will be discussed.. Prerequisite: MTH 135 or equivalent with a grade of "C" or higher Credit: 4 semester hours Lecture: 4 Lab: 0

MTH 211 -**Calculus for Business and** Social Sciences IAI- M1 900-B

11 Calculus for Business and Social Sciences is an elementary treatment of topics from differential and integral calculus, with applications in the social sciences and business. Topics included are polynomial and exponential functions and their derivatives, as well as integration. Each of these topics is explored with an eve on its usefulness as a tool to answer questions in those fields of major interest to the students. This course is not intended to apply toward a major or a minor in mathematics. Prerequisite: MTH 120 or equivalent with a grade of "C" or higher. Credit: 4 semester hours Lecture: 4 Lab: 0

MTH 216 -**Mathematics for Elementary** Teachers I IAI · None

11 Mathematics for Elementary Teachers I is for students intending to major in elementary education. This course focuses on mathematical reasoning and problem-solving using manipulatives, calculators, and microcomputers. Topics include sets, the origin of numbers and numerals, systems of numeration, functions, whole numbers, number theory, integers, rational numbers and irrational numbers, and the real number system. The MTH 216-217 course sequence fulfills the two-course mathematical content requirement for Illinois state certification in elementary teaching. Prerequisite: Geometry and Intermediate Algebra with grades of "C" or higher in both courses. Credit: 3 semester hours Lecture: 3 Lab: 0

MTH 217 -**Mathematics for Elementary** Teaching II

IAI: M1 903 11 Mathematics for Elementary Teaching II is for students intending to major in elementary education. The course focuses on mathematical reasoning and problem-solving using manipulatives, calculators, and microcomputers. Topics include statistics, probability, basic geometric shapes and their properties, measurement, triangle congruence and similarity, coordinate geometry, and transformational geometry. The MTH 216-217 course sequence fulfills the two-course mathematical content requirement for Illinois state certification in elementary teaching. Prerequisite: MTH 216 or equivalent with a grade of "C" or higher. Credit: 3 semester hours Lecture: 3 Lab: 0

MTH 220 -**Elements of Statistics** IAI: M1 902

1.1 Elements of Statistics is intended primarily for students in life science or social science, or others interested in elementary statistics. Topics included are measures of central tendency and variability, graphical presentation of data, normal and binomial distributions, t- and chi-square distributions, sampling, and correlation. This course is not intended to apply toward a major or minor in mathematics. Prerequisite: Geometry and Intermediate Algebra with grades of "C" or higher in both courses. Credit: 3 semester hours Lecture: 3 Lab: 0

MTH 235 -**Calculus** with Analytic Geometry II

IAI: M1 900-2 IAI: MTH 902 1.1 Calculus with Analytic Geometry II is a continuation of MTH 135. Topics included are applications of the definite integral. techniques of integration, parametric equations, polar coordinates and infinite series.

Prerequisite: MTH 135 or equivalent with a grade of "C" or higher. Credit: 4 semester hours Lecture: 4 Lab. 0

MTH 236 -**Calculus with Analytic** Geometry III

IAI: M1 900-3 IAI: MTH 903 1.1 Calculus with Analytic Geometry III is a continuation of MTH 235. Topics included are analytic geometry of three-dimensions, vectors, partial derivatives, multiple integrals, vector calculus, and differential equations. Prerequisite: MTH 235 or equivalent with a grade of "C" or higher. Credit: 4 semester hours Lecture: 4 Lab: 0

MTH 240 -Differential Equations IAI: MTH 912

11 Differential Equations is a course in the formulation, solution, and application of firstand simple higher-order differential equations. Topics included are first- and secondorder ordinary differential equations with applications; simultaneous differential equations with applications; solution of differential equations by varied techniques, including Laplace transforms, numeric and/or series methods; an introduction to partial differential equations, boundary value problems and Fourier series. Prerequisite: MTH 236 or equivalent with a grade of "C" or higher, or con-

current enrollment in MTH 236. Credit: 3 semester hours Lecture: 3 Lab: 0

MTH 250 -Modern Linear Algebra IAI: MTH 911

1.1 Modern Linear Algebra is a study of elementary topics of linear algebra, in which systems of equations and matrices are used as vehicles for the discussion of vector spaces, subspaces, independence, bases, dimension, linear transformations, and similarity. The study will also consider applications of these ideas and techniques to selected areas such as linear differential equations, approximation problems (leastsquares best fit to data; Fourier series), linear programming (the simplex algorithm), Markov chains, Leontief economic models, genetics, and computer graphics. Prerequisite: MTH 236 or equivalent with a grade of "C" or higher, or concurrent enrollment in MTH 236. Credit: 3 semester hours Lab: 0 Lecture: 3

MODERN LANGUAGES

Liberal Arts Division (815) 921-3317

In which level of foreign language study should a student enroll?

If a student has taken a foreign language in high school within the last three years, use this simple formula:

- Multiply the number of semesters of high school foreign language study by the numeric equivalent of the grade earned (A=4; B=3; C=1; D=0; F=0).
- Then divide the total by 2.

If the total is:

0 - 2.5	enroll in	101
3 - 4.5	enroll in	102
5 - 9.5	enroll in	203
10 - 12.5	enroll in	204
13 - 16	enroll in	205

If students place into a course above 101, they may petition to receive the equivalent college credits for the course or courses they did not have to take at RVC. Upon successful completion (a grade of B or better) of the advanced course, students should contact the Modern Language area for full details.

Finally, if the last semester of high school foreign language study was more than three years ago, or language skills have been acquired from sources other than secondary education, students may take the Rock Valley College Foreign Language Placement/Proficiency Exam. Results on this exam may indicate eligibility to begin an advanced course in that language.

FRN 101 -Beginning French IAI: None

 IAI: None
 1.1

 Beginning French emphasizes basic communication skills in French, including listening, speaking, reading and writing.
 1.1

 Students will learn about the culture of selected French-speaking areas.
 1.1

 Prerequisite: None
 1.1

 Credit: 4 semester hours
 1.2

 Lecture: 4
 Lab: 0

FRN 102 -Continuation of Beginning French

Continuation of Beginning French builds upon and expands the knowledge acquired in Beginning French. Prerequisite: FRN 101 with a grade of "C" or higher; or the equivalent by high school credit or proficiency. See above explanation of placement. Credit: 4 semester hours Lecture: 4 Lab: 0

FRN 203 -Intermediate French IAI: None

1.1 Intermediate French is the third semester of the foreign language sequence, and is conducted entirely in French. In addition to reviewing first-year concepts, students will expand their knowledge of the grammatical structures of the language, participate in conversations on studied topics, increase their ability to understand spoken language, and learn more about the culture of the countries where French is spoken. Students will write short compositions and give an oral presentation. Prerequisite: FRN 102 with a grade of "C" or higher; equivalency by high school credit or proficiency. Credit: 3 semester hours Lab: 0 Lecture: 3

FRN 204 -Continuation of Intermediate French IAI: H1 900

Continuation of Intermediate French is the fourth semester of the foreign language sequence, and is conducted entirely in French. Students will expand their knowledge of the grammatical structures of the language, participate in conversations on studied topics, increase their ability to understand spoken language, and learn more about the culture of the countries where French is spoken. Students will write short compositions and give an oral presentation. *Prerequisite: FRN 203 with a grade of*

11

"C" or higher; equivalency by high school credit or proficiency. *Credit: 3 semester hours Lecture: 3*

GRM 101 -Beginning German

IAI: None 1.1 Beginning German emphasizes basic communicative skills in German, including listening, speaking, reading and writing. Students will learn about the culture of selected German-speaking areas. Prerequisite: None Credit: 4 semester hours Lecture: 4 Lab: 0

GRM 102 -

Continuation of Beginning German IAI: None 1.1

Continuation of Beginning German builds upon and expands the knowledge acquired in Beginning German.

Prerequisite: GRM 101 with a grade of "C" or higher; or the equivalent by high school credit or proficiency. See above explanation of placement. Credit: 4 semester hours Lecture: 4 Lab: 0

GRM 203 -Intermediate German

IAI: None

1.1

Intermediate German is the third semester of the foreign language sequence, and is conducted entirely in German. In addition to reviewing first-year concepts, students will expand their knowledge of the grammatical structures of the language, participate in conversations on studied topics, increase their ability to understand spoken language, and learn more about the culture of the countries where German is spoken. Students will write short compositions and give an oral presentation. *Prerequisite: GRM 102 with a grade of* "C" or higher; equivalency by high school credit or proficiency.

Credit: 3 semester hours Lecture: 3

Lab: 0

GRM 204 -Continuation of Intermediate German IAI: H1 900

11 Continuation of Intermediate German is the fourth semester of the foreign language sequence, and is conducted entirely in German. Students will expand their knowledge of the grammatical structures of the language, participate in conversations on studied topics, increase their ability to understand spoken language, and learn more about the culture of the countries where German is spoken. Students will write short compositions and give an oral presentation. Prerequisite: GRM 203 with a grade of "C" or higher; equivalency by high school credit or proficiency. Credit: 3 semester hours Lecture: 3 Lab: 0

SPN 101 -Beginning Spanish IAI: None

Beginning Spanish emphasizes basic communicative skills in Spanish, including listening, speaking, reading and writing. Students will learn about the culture of selected Spanish-speaking areas. Prerequisite: None Credit: 4 semester hours Lecture: 4 Lab: 0

1.1

SPN 102 -Continuation of Beginning Spanish

IAI: None 1.1 Continuation of Beginning Spanish builds upon and expands the knowledge acquired

in Beginning Spanish. Prerequisite: SPN 101 with a grade of "C" or higher; or the equivalent by high school credit or proficiency. See above explanation of placement. Credit: 4 semester hours Lecture: 4 Lab: 0

SPN 203 -Intermediate Spanish IAI: None

Intermediate Spanish is the third semester of Spanish study. Students review and amplify listening, reading, writing, and speaking skills in a cultural context. *Prerequisite: SPN 102 with a grade of* "C" or higher; or the equivalent by high school credit or proficiency. See above explanation of placement. *Credit: 3 semester hours Lecture: 3 Lab: 0*

SPN 204 -Continuation of Intermediate Spanish IAI: H1 900

1.1

IAI: H1 900 1.1 Continuation of Intermediate Spanish builds upon and expands the knowledge acquired in the previous three semesters of Spanish study.

Prerequisite: SPN 203 with a grade of "C" or higher; or the equivalent by high school credit or proficiency. See above explanation of placement. Credit: 3 semester hours Lecture: 3 Lab: 0

SPN 205 -

Advanced Spanish Conversation

Advanced Spanish Conversation is for students who have successfully completed at least three semesters of college Spanish or the equivalent and wish to continue practicing the language in a conversational context. Students will enlarge their active vocabulary and apply it in a variety of contextual situations. They will learn to describe events and discuss issues of historical, literary, and cultural relevance to the Spanish-speaking world using the correct idiomatic expressions, tensess and grammatical structures. The main focus of the class is conversational but the content will be mostly based on cultural aspects of Spain and Latin America. This class is conducted exclusively in Spanish. Prerequisite: 3 semesters of college or 4 years of high school Spanish. Credit: 3 semester hours Lecture: 3 Lab: 0

SPN 215 -Spanish Grammar for Native/Heritage Speakers IAI: None

This class is for students who grew up speaking Spanish at home, but who have little or no formal study of the language. The purpose is to develop, maintain and enhance proficiency in Spanish by providing a variety of opportunities. It is an intensive course on Spanish grammar with special emphasis given to grammatical forms that tend to present difficulties to native speakers as well as the correction of typical errors created by the influence of the English language. The class will allow students to explore the cultures of the Hispanic world including their own and it will enable them to gain a better understanding of the nature of their own language and culture. Class is conducted exclusively in Spanish.

Prerequisite: To be a native or heritage speaker of Spanish (i.e. of Hispanic descent and use Spanish to communicate at home.) This class cannot be taken in conjunction with the regular Spanish sequence 101-102-203-204, but can be taken INSTEAD of the regular four semester Spanish classes. Permit by instructor needed. Credit: 3 semester hours

Lecture: 3

MUSIC

Liberal Arts Division (815) 921-3317

MUS 101 -Fundamentals of Music IAI: None

IAI: None1.1Fundamentals of Music is a study of the
basic principles (elements of music includ-
ing pitch, notation, scales, key signatures
and intervals) for students with little or no
previous music experience.Prerequisite: None
Credit: 3 semester hours
Lecture: 3Lab: 0

MUS 102 -

Introduction to Music Literature IAI: F1 900, FI 901 1

Introduction to Music Literature is a study of the masterpieces of musical literature through a survey of standard concert repertory and its historical development. This is a non-technical course for students who are not concentrating in music. *Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0*

MUS 104 -Introduction to American Music

IAI: F1 904 1.1 Introduction to American Music is a survey of 20th century American music with some attention given to historical developments that brought about this music. Serious, jazz, musical theater and popular styles will be discussed. Listening to representative examples will be an important part of the class. This is a non-technical course for students who are not concentrating in music. *Prerequisite: Nome Credit: 3 semester hours*

Lecture: 3

Lab. 0

MUS 105 -

11

Lab. 0

MUS

Music for Elementary Teachers

IAI: None 1.1 Music for Elementary Teachers is a study of basic skills for teaching music in the elementary grades through activities in singing, listening, playing and moving to music. The course stresses understanding music fundamentals and using the piano and other basic instruments. *Prerequisite: None Credit: 3 semester hours*

Lecture: 3 Lab: 0

MUS 106 -

Introduction to Non-Western Music IAI: F1 903N 1.1

Introduction to Non-Western music is a survey of music from Asia, the Middle East, Africa, South America, the Caribbean and Central America. Emphasis will be placed on exploring the cultural, social, religious and historical backgrounds that shaped the music of these regions. Musical instruments from these areas will also be examined. This is a non-technical course for students who are not concentrating in music. *Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0*

MUS 111 -

Theory of Music IIAI: None1.1Theory of Music I is a study of elementary
music forms and the basic principles of
chord structure and progression including
four-part writing of diatonic harmony,
sight-singing, dictation and rhythmic drills.Prerequisite: MUS 101 or equivalent.
Credit: 4 semester hours
Lecture: 3Lab: 2

MUS 112 -

Theory of Music IIIAI: None1.1Theory of Music II is a continuation ofMUS 111.Prerequisite: MUS 111 or equivalent.Credit: 4 semester hoursLecture: 3Lab: 2

MUS 121 -**Basic Music Literature** IAI: None

1.1 Basic Music Literature is an introduction to music literature for music majors emphasizing music from the Baroque period to the present. Awareness of representative composers and styles from each period and familiarity with selected works will be stressed. Guidance will be given in the effective techniques of listening to music.

Prerequisite: Previous music study (another music course or private music *instruction*) Credit: 3 semester hours Lab: 0 Lecture: 3

MUS 122-130 -**Applied Music for Non-Majors**

IAI: None

Applied Music for Non-Majors is for students who intend to minor in music and/or participate in one or more of the college music ensembles and therefore, want to improve their musical skills. A weekly onehalf hour lesson with the instructor and daily individual practice are required. In addition to the credit hour fee, a private lesson charge will be assessed. Each of the following applied music courses may be taken four times for credit. However, only eight credits in applied music can be counted toward an A.A. or A.S. degree. Prerequisite: Consent of the instructor. and an RVC music instructor is required. Credit: 1 semester hours Lecture: .5 Lah. 1

MUS 122 -

Applied Jazz Guitar for Non Majors IAI: None

MUS 123 -**Applied Piano for Non Majors** IAI: None

MUS 124 -**Applied Voice for Non Majors** IAI: None

MUS 125 -**Applied Strings for Non Majors** IAI: None

MUS 126 -**Applied Brass for Non Majors** IAI: None

MUS 127 -**Applied Woodwinds for Non Majors** IAI: None

MUS 128 -

Applied Percussion for Non Majors IAI: None MUS 129 -

Applied Classical Guitar for Non Majors IAI: None

MUS 130 -

Applied Music for Non Majors IAI: None

MUS 131 -Class Piano I

IAI: None 1.1 Class Piano I is for the non-piano major and for those who need or desire basic keyboard skills. Prereauisite: None Credit: 2 semester hours Lecture: 1 Lab: 2

MUS 132 -

Class Piano II IAI: None 1.1 Class Piano II is a continuation of MUS 131. Prerequisite: MUS 131 or equivalent. Credit: 2 semester hours Lab: 2 Lecture: 1

MUS 133 -

1.1

Class Piano III IAI: None 1.1 Class Piano III is a continuation of Class Piano II/MUS 132. Prerequisite: MUS 132 Credit: 2 semester hours Lecture: 1 Lab: 2

MUS 134 -**Class Piano IV**

IAI: None 1.1 Class Piano IV is a continuation of Class Piano III/MUS 133. Prerequisite: MUS 133 Credit: 2 semester hours Lecture: 1 Lab: 2

MUS 143 -Class Voice I

IAI: None 11 Class Voice I is a study of basic exercises and theory needed in developing technique in singing for the non-voice major and student with no previous training. Class discussion and drill are coupled with attention to individual problems and development. Prerequisite: Previous choral experience is helpful and concurrent enrollment in MUS 191 or 291 is suggested. Credit: 2 semester hours Lab. 1 Lecture: 2

MUS 144 -**Class Voice II**

IAI: None

Class Voice II is a continuation of MUS 143. Prerequisite: MUS 143 or equivalent. Concurrent enrollment in MUS 191 or 291 is suggested. Credit: 2 semester hours Lecture: 2 Lab: 1

MUS 145 -**Diction for Singers** IAI: None

1.1 Diction for Singers provides the fundamental tools for pronouncing, reading, and singing vocal music in the following languages: English, classical Latin, Italian, German, French. Students will learn the sounds of phonemes and their representation in the International Phonemic Alphabet (IPA), rules governing pronunciation in several languages, and transcription skills for phonemic interpretation of other

unfamiliar languages in singing. Prerequisite: MUS 191-Chorus I or MUS 192-Chamber Singers I with a grade of C or better. Credit: 3 semester hours Lecture: 3 Lab: 0

MUS 191 -

Chorus I IAI: None 11 Chorus I is open to students who wish to sing standard and contemporary choral literature. Chorus members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit. Prerequisite: Previous singing experience. Credit: 1 semester hour Lecture: 0 Lab: 3

MUS 192 -

Chamber Singers I IAI: None 1.1 Chamber Singers I is open by audition to students who wish to perform in a select vocal chamber ensemble. The ensemble sings standard and contemporary vocal chamber music. Members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit. Prerequisite: Satisfactory vocal audition. Concurrent enrollment in MUS 191 or 291 is suggested. Credit: 1 semester hour Lecture: 0 Lab: 3

MUS 193 -Women's Choir I IAI: None

1.1 Women's Choir I is open by audition to (female) students who wish to perform in a select women's vocal chamber ensemble. The ensemble sings standard contemporary choral literature written exclusively for women's voices. Members are expected to perform at concerts and certain other scheduled events. May be repeated three times for credit. Prerequisite: Satisfactory vocal audi-

tion. Concurrent enrollment in MUS 191 or 291 is suggested. Credit: 1 semester hour Lab: 3

Lecture: 0

MUS 194 -

11

Instrumental Ensemble I IAI: None 1.1

Instrumental Ensemble I is open to students who wish to perform in Jazz Ensemble or other small instrumental groups. Members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit.

Prerequisite: Previous playing experience. For Jazz Ensemble, concurrent enrollment in MUS 195 or 295 by woodwind, brass and percussion players is suggested. Credit: 1 semester hour

Lecture: 0

MUS 195 -Band I

IAI: None 1.1 Band I is open to students who play brass, woodwind, or percussion instruments. The band plays standard and contemporary band literature. Band members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit. Prerequisite: Previous instrument playing experience. Credit: 1 semester hour Lecture: 0 Lab: 3

MUS 198 -Orchestra I

1.1 IAI: None Orchestra I is open to students who play orchestral instruments. The orchestra plays standard and contemporary orchestra literature. Orchestra members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit. Prerequisite: Previous instrument playing experience. Credit: 1 semester hour Lecture: 0 Lab: 3

MUS 211 -**Theory of Music III**

IAI: None 11 Theory of Music III is a study of advanced theory of music including chromatic harmony. Stylistic differences between 18th century and 19th century practice will be studied. Sight-singing and ear-training work will be continued. Original composition may be encouraged. Prerequisite: MUS 112 or equivalent. Credit: 4 semester hours Lecture: 3 Lab: 2

MUS 212 -**Theory of Music IV** IAI: None Theory of Music IV is a continuation of MUS 211. Original composition and/or arranging may be required. Prerequisite: MUS 211 or equivalent.

Credit: 4 semester hours Lab: 2 Lecture: 3

1.1

MUS 222-230 -**Applied Music for Music Majors** 1 1 IAI: None

Applied Music for Music Majors is for students who intend to major or minor in music. A weekly one hour lesson with the instructor and daily individual practice are required. In addition to the credit hour fee, a private lesson charge will be assessed. Each of the following applied music courses may be repeated for additional credit; music majors should have a minimum of eight credit hours of collegiate-level applied music study to ensure transfer credit status; a total of eight credits in applied music can be counted toward an A.A. or A.S. degree. PREREQUISITE: Consent of a RVC music instructor is required. Note:

• Students studying Applied Piano should have taken MUS 131 and 132-Class Piano I and II or its equivalent in private study.

• Students studying Applied Voice should have taken MUS 143-Class Voice I or its equivalent in private studu. Credit: 2 semester hours

Lecture: 1 Lah 2

MUS 222 -Applied Jazz Guitar for Music Majors IAI: None

MUS 223 -Applied Piano for Music Majors IAI: None

MUS 224 -**Applied Voice for Music Majors** IAI: None

MUS 225 -Applied Strings for Music Majors IAI. None

MUS 226 -Applied Brass for Music Majors IAI: None

MUS 227 -Applied Woodwinds for Music Majors IAI: None

MUS 228 -**Applied Percussion** for Music Majors IAI: None

MUS 229 -**Applied Classical Guitar** for Music Majors IAI: None

MUS 230 -**Applied Music for Music Majors** IAI: None

MUS 251 Music Literature I

IAI: F1 901

1.1 Music Literature I is a study of the music literature of Western Civilization from its origin to 1600. Emphasis will be on representative works of each period using videos, recording, scores, and live performances. Stylistic difference and comparisons are stressed. The music will be considered in relation to the other fine arts and to the general historical background. The course is designed for students who intend to major in music. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

MUS 252 Music Literature II

IAI: F1 902 1.1 Music Literature II is a continuation of MUS 221 from 1600 to the Late 19th Century. Prerequisite: None Credit: 3 semester hours Lab: 0 Lecture: 3

MUS 253 -

Music Literature III IAI: F1 902 11 Music Literature III is a continuation of MUS 252 from 1870 to the present. Emphasis will be placed on representative works and composers by the use of texts and recordings. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

MUS 254 -**Choral Conducting**

IAI: None 1.1 Choral Conducting I provides the experiential and technical basis for successful choral rehearsals and concerts. This course emphasizes communicating through basic conducting gestures, creating and managing a solid choral timbre, and preparing scores for rehearsal and performance. Required Prerequisite: MUS 111. Credit: 3 semester hours Lecture: 3 Lab: 0

MUS 291 -

Chorus II IAI: None 1.1 Chorus II is a continuation of MUS 191 and is open to students who wish to sing. The chorus sings standard and contemporary choral literature. Chorus members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit. Prerequisite: Previous singing experience and satisfactory completion of four semesters of MUS 191. Credit: 1 semester hour Lecture: 0 Lab: 3

MUS 292 -

Chamber Singers II IAI · None

Chamber Singers II is a continuation of MUS 192 and is open by audition to students who wish to perform in a select vocal chamber ensemble. The ensemble sings standard and contemporary vocal chamber music. Members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit. Prerequisite: Satisfactory vocal audition and satisfactory completion of four semesters of MUS 192. Concurrent enrollment in MUS 191 or 291 is suggested. Credit: 1 semester hour Lecture: 0 Lab: 3

11

MUS 293 -Women's Choir II IAI: None

1.1 Women's Choir II is open by audition to (female) students who wish to peform in a select women's vocal chamber ensemble. The ensemble sings standard contemporary choral literature written exclusively for women's voices. Members are expected to perform at concerts and certain other scheduled events. May be repeated three times for credit.

Prerequisite: Four semesters of successful achievement in MUS 193. Concurrent enrollment in MUS 191 or 291 is suggested. Credit: 1 semester hour Lecture: 0 Lab: 3

MUS 294 -Instrumental Ensemble II IAI: None

1.1 Instrumental Ensemble II is a continuation of MUS 194 and is open to students who wish to perform in Jazz Ensemble or other small instrumental groups. Members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit. Prerequisite: Previous playing experience and satisfactory completion of four semesters of MUS 194. For Jazz Ensemble, concurrent enrollment in MUS 195 or 295 by woodwind, brass and percussion players is suggested. Credit: 1 semester hour Lecture: 0 Lab: 3

MUS 295 -

Band II IAI: None

11 Band II is a continuation of MUS 195 and is open to students who play brass, woodwind, or percussion instruments. The band plays standard and contemporary band literature. Band members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit. Prerequisite: Previous playing experience and satisfactory completion of four semesters of MUS 195. Credit: 1 semester hour Lecture: 0 Lab: 3

MUS 298 -Orchestra II

IAI: None

11 Orchestra II is open to students who play orchestral instruments. The orchestra plays standard and contemporary orchestra literature. Orchestra members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit. Prerequisite: Previous playing experience and satisfactory completion of four semesters of MUS 198. Credit: 1 semester hour Lecture: 0 Lab: 3

MYTHOLOGY

- See Literature

NURSING AIDE

Nursing programs (815) 921-3261

NAD 101 -**Nursing Aide**

IAI: None Nursing Aide provides an introduction to the principles of patient care. Emphasis is placed on communication and technical skills

necessary to function as an important member of the nursing team. Students are given opportunities to develop their skills in a variety of classroom and clinical settings. (Approved by the Illinois Department of Public Health.) Credit: 6 semester hours Lab: 5 Lecture: 4

NAD

1.2

NRS

NURSING

Nursing programs (815) 921-3261

NRS 105 -**Professional Nurse Role I** IAI: None

12 This course focuses on the role of the professional nurse as caregiver, educator, client advocate and health team member and establishing the ethical parameters of professional nursing. Selected strategies to implement the role will be utilized. Prerequisite: NRS 110 Corequisites: NRS 111 Credit: 1 semester hour Lecture: 1 Lab: 0

NRS 108 -Pathophysiology Altered **Health Concepts** IAI: None

12 This course introduces mechanisms of disease and illness that affect health in individuals throughout the lifespan. Alterations in physiological processes are examined with an emphasis on client health. Pathophysiology as a foundation for professional nursing is introduced. Prerequisite: BIO 185 or BIO 281 and 282, BIO 274. Credit: 3 semester hours Lecture: 3 Lab: 0

NRS 110 -**Core Concepts I for Professional Nursing** IAI: None

This course provides an opportunity to explore the nature and interrelationship of four components of nursing: environment, nurse, person, and health. The student is introduced to the characteristics of the healthcare delivery system, legal aspects, and the use of the nursing process and the

1.2

Neuman Systems Model to assess an individual client's status, derive nursing diagnosis, plan, implement and evaluate care. Prerequisite: BIO 185, 274 and PSY 170 Corequisite: FWS 237 Credit: 2 semester hours Lecture: 2 Lab: 0

NRS 111 -**Core Concepts II for Professional Nursing** IAI: None

12 This course focuses on the use of the nursing process and the Neuman Systems Model to promote physiologic wellness for individual adult clients. The common physiologic needs generally encountered by the individual client requiring care are addressed. The culminating learning experience integrates pathophysiologic and core concepts for the individual client undergoing the planned trauma of surgery. Laboratory and selected clinical experiences are assigned. Prerequisite: NRS 108, 110, PNU 107, Corequisite: FWS 237 Credit: 4 semester hours Lecture: 2 Lab: 4

NRS 207 -

Pharmacology for Nursing Care IAI: None 12 This course builds on the principles of pharmacology introduced in PNU 107. Pharmacokinetic factors in drug therapy are examined in relation to the major body systems and management of client health. The pharmacological aspects of nursing care are integrated using the nursing process. Major drug classification prototypes and the related nursing implications are discussed. Prerequisite: Admission to the Associate Degree Nursing Program or permission of the Associate Dean.

Lab: 0

PNU 107, NRS 111.

Credit: 2 semester hours Lecture: 2

NRS 210 -**Transition to Associate Degree Nursing**

12 IAI: None This course focuses on the transition of the Licensed Practical Nurse into the Rock Valley College Associate Degree Nursing program. Students examine the philosophy of the associate degree program and major concepts of the role of the registered professional nurse. The course includes an emphasis on application of the nursing process and the Neuman Systems Model for selected health problems. Learning experiences are provided in the laboratory to evaluate the student's knowledge of nursing concepts and performance of selected nursing skills. Prerequisite: Admission to the LPN Bridge for the Nursing program. Credit: 3 semester hours Lecture: 3 Lab: 0

NRS 212 -**Adult Health Nursing II** IAI: None

This course focuses on adult clients as individuals and families with alteration in cardiopulmonary function. The use of the nursing process in promoting and restoring health and preventing illness is integrated. Prerequisite: NRS 213, 215, 232, 234 Credit: 2 semester hours Lecture: 2 Lab. 0

1.2

NRS 213 -**Adult Health Nursing I**

IAI: None 12 This course focuses on the adult clients using the Neuman Systems Model. Emphasis is on metabolic and elimination dysfunction. The use of the nursing process in disease prevention, health promotion, and restorative concepts is integrated. Prerequisite: ENG 101, NRS 207, 214, 217. 222. 224 Credit: 2 semester hours

Lecture: 2 Lab: 0

NRS 214 -**Family and Reproductive Health Nursing** IAI: None

1.2 This course focuses on the client needs from conception through the post-partum period. Emphasis is on the nursing process, health promotion and the prevention of illness. The alterations in health during the reproductive cycle are addressed. Selected aspects of the perioperative nursing role and care are integrated. Prerequisite: NRS 111 Credit: 2 semester hours Lecture: 2 Lab: 0

NRS 215 -**Child and Family Health Nursing** IAI: None

This course focuses on the use of the nursing process to meet the needs of children and families. Disease prevention, health promotion, and restorative concepts are integrated. Prerequisite: ENG 101, NRS 207, 214, 217, 222, 224

Credit: 2 semester hours Lecture: 2 Lab: 0

NRS 217 -**Psychiatric Nursing** IAI: None

This course focuses on the use of the nursing process to meet the needs of clients experiencing psychiatric disorders and maladaptive behaviors. Emphasis is on the community mental health-illness continuum throughout the lifespan. Prerequisite: NRS 111 Credit: 2 semester hours Lab: 0 Lecture: 2

NRS 218 -Adult Health Nursing III IAI: None

This course focuses on adult clients as individuals and families with alterations in cognition, sensation, motion, and burn injuries, from emergency care through rehabilitation. Use of the nursing process in promoting and restoring health and preventing illness is integrated. Prerequisite: NRS 213 215 232 234 Credit: 2 semester hours Lecture: 2 Lab: 0

1.2

12

Lab: 0

NRS 222 -**Family and Reproductive** Health Clinical IAI: None

1.2 This course provides an opportunity to care for the mother and newborn in the context of the family system. Selected experiences are provided in caring for the client in the antenatal, intrapartum, postpartum family from birth through adolescence. Prerequisite: NRS 111 Corequisite: NRS 214 Credit: 3 semester hours Lecture: 0 Lab: 6

NRS 224 -**Psychiatric Nursing Clinical** IAI: None

This course focuses on the delivery of care through the use of the nursing process to clients and families experiencing psychiatric disorders and maladaptive behaviors. Emphasis is on assisting the client(s) with problem-solving in selected community mental health settings. Laboratory and selected clinical experiences are provided. Prerequisite: NRS 111 Corequisite: NRS 217 Credit: 3 semester hours Lecture: 0 Lab: 6

NRS 225 -

Professional Nurse Role II IAI: None 1.2 This course focuses on the entry into professional nursing practice and role transition. Emphasis is on ethical-legal issues in professional practice, political-economic issues in the delivery of healthcare and the nurse's role in management of care for the client system. Prerequisite: NRS 213, 215, 232, 234 Corequisite: 212, 218, 242, NRS 244/or Associate Dean consent

Credit: 2 semester hours Lecture: 2

NRS 232 -

12

Child and Family Health Clinical IAI: None 12

This course focuses on the delivery of care through the use of the nursing process with children and families experiencing alterations in health. Emphasis is on assisting the client system with health problems in selected community settings. Laboratory and selected clinical experiences are provided. Prerequisite: NRS 214, 217, 222, 224 Corequisite: NRS 215 Credit: 3 semester hours Lecture: 0 Lab: 6

NRS 234 -Adult Health I Clinical

IAI: None 1.2 This course focuses on the delivery of care through the use of the nursing process with adults experiencing metabolic and elimination dysfunction. Emphasis is on assisting the client with health problems in selected community settings. Laboratory and selected clinical experiences are provided. Prerequisite: NRS 214, 217, 222, 224 Corequisite: NRS 213 Credit: 3 semester hours Lecture: 0 Lab: 6

NRS 242 -

Adult Health II Clinical IAI: None

This course focuses on the application of the nursing process in delivering care to client systems experiencing alterations in cardiopulmonary function. The emphasis of this course is place on the nursing activities of health promotion, clinical competence, communication, collaboration, judgment, and critical thinking in meeting the needs of the client for cardiopulmonary health throughout the adult lifespan. Laboratory and selected clinical experiences are provided.

Prerequisites: NRS 213, 215, 232, 234 Corequisite: NRS 212 Credit: 3 semester hours Lecture: 0

Lab: 6

12

NRS 244 -

Adult Health III Clinical IAI: None 12 This course focuses on the application of the nursing process in delivery care to adult client systems experiencing alterations in cognition, sensation, motion and burn injuries. Emphasis is on the nursing activities of health promotion, clinical competence, communication, collaboration, judgment, and critical thinking. Laboratory and selected clinical experiences are provided. Prerequisites: NRS 213, 215, 232, 234 Corequisite: NRS 218 Credit: 3 semester hours Lecture: 0 Lab: 6

NRS 250 -

Independent Study in Nursing IAI. None

Independent Study in Nursing is designed for the student who desires to conduct an individual project based on personal goals and objectives in nursing. Course requirements and hours of credit are based on the nature of the subject under study. A maximum of three credits may be earned in this course.

Prerequisite: Completion of first-year nursing courses and consent of the Associate Dean. Credit: 1-3 semester hours

Lecture: 1-3 Lab: 0

NRS 251 -**Special Topics in Nursing** IAI: None

1.2 Special Topics in Nursing is designed to explore topics of special interest in a selected area of nursing. A maximum of four credits may be earned in the course. The course may be repeated three times. Prerequisite: None Credit: 1-4 semester hours

Lab: 0 Lecture: 1-4

HYBRID ONLINE NURSING



1.2

Nursing programs (815) 921-3261

NUR 178 – Pharmacology IAI: None

Pharmacology focuses on reinforcing the relationship between pharmacologic knowledge and nursing practice. It provides the background needed to understand drugs currentyly on the market, as well as drugs vet to be released. Nursing implications using the nursing process are emphasized. Prerequisites: Admission to online nursing program, BIO 185 or BIO 281/282; BIO 274 Co-Requisites: NUR 179, NUR 181, FWS 237 Credit: 2 semester hours Lab: 0 Lecture: 2 online

NUR 179 -**Fundamentals of Nursing**

IAI: None 12 Fundamentals of Nursing is a foundation course in the nursing process which introduces the Neuman Systems Model with its emphasis on holistic health of culturally diverse clients. The Systems Model provides an integrated understanding of the client, the environment, health and nursing. Basic skills necessary for implementation of the nursing process will be include. Prerequisites: Admission to online nursing program, BIO 185 or BIO 281/282: BIO 274

Co-Requisites: NUR 178, NUR 181, FWS 237 Credit: 4 semester hours Lab: 0 Lecture: 4 online

NUR 181 -**Fundamentals of** Nursing Clinical

IAI: None 1.2 Fundamentals of Nursing Clinical introduces application of the nursing process and the Neuman Systems Model in various settings including long-term care and acute care facilities. Successful mastery of skills in an intensive laboratory setting will be accomplished pror to clinical experiences. Prerequisites: Admission to online nursing program, BIO 185 or BIO 281/282; BIO 274

Co-Requisites: NUR 178, NUR 179, FWS 237

Credit: 5.5 semester hours 138 Lab: 11 Lecture: 0

NUR 182 -Medical/Surgical Nursing I IAI: None

1.2 Medical/Surgical Nursing I develops the use of the nursing process in the care of clients with medical and/or surgical conditions. Core integrated nursing concepts include critical thinking, bio-psychosocial assessment and cultural competence. Selected content includes client cases with alterations in health—fluid_electrolyte and acid-base imbalances, peri-operative care, immune system disorders, and oxygenation problems.

Prerequisites: Admission to online nursing program, NUR 178, NUR 179, NUR 181, FWS 237 Co-requisites: NUR 183, PSY 170

Credit: 4 semester hours Lecture: 4 online Lab: 0

NUR 183 -**Medical/Surgical Nursing I Clinical**

IAI: None Medical/Surgical Nursing I Clinical applies the nursing process to clients with medical and/or surgical conditions. Critical thinking, bio-psychosocial assessment and culturally competent care are integrated. Selected clinical experiences include care of clients with fluid, electrolyte, and acid-base imbalances, perioperative interventions, immune system disorders and oxygenation problems are emphasized

Prerequisites: Admission to online nursing program, NUR 178, NUR 179, and NUR 181

Co-requisite: NUR 182, PSY 170 Credit: 5.5 semester hours Lecture: 0 Lab: 11

NUR 280 -

Family Health Nursing IAI: None

1.2 Family Health Nursing introduces application of the nursing process to assist all family members to reach optimal levels of wellness. Content ranges from prenatal care through childbirth to care of the child through adolescence. Alterations in health are included.

Prerequisites: Admission to online nursing program, NUR 182, NUR 183 Co-requisite: NUR 281, PSY 270 Credit: 5 semester hours Lecture: 5 online Lab: 0

NUR 281 -**Family Health Nursing Clinical** IAI: None

12 Family Health Nursing Clinical introduces application of the nursing process with families both in wellness and alterations in health. Select clinical experiences will be arranged which may include clinics and acute care settings. Prerequisites: Admission to online nursing program, NUR 182, NUR 183 Co-requisite: NUR 280, PSY 270 Credit: 3 semester hours Lecture: 0 Lab: 6

NUR 282 -Medical/Surgical Nursing II

IAI: None 12 Medical/Surgical Nursing II builds on previous content, with an emphasis on applying the nursing process to multicultural clients with medical and/or surgical conditions. Topics include assessment and interventions for clients with cardiac, hematologic, nervous, musculoskeletal and gastrointestinal problems Prerequisites: Admission to online

nursing program, NUR 182, NUR 183 Co-requisite: NUR 283 Credit: 3 semester hours Lecture: 3 online Lab: 0

NUR 283 -

Medical/Surgical Nursing II Clinical PCS: 1.2 IAI: None

Medical/Surgical Nursing II Clinical builds on previous content, with an emphasis on applying the nursing process to clients with medical and/or surgical conditions. Topics include assessment and interventions for clients with cardiac, hematologic, nervous, musculoskeletal and gastrointestinal problems.

Prerequisites: Admission to online nursing program, NUR 182 & NUR 183 Co-Requisites: NUR 282 & PSY 270 Credit: 3 semester hours Lecture: 0 Lab: 6

NUR 284 -

Professional Roles in Nursing IAI: None $PCS \cdot 12$

Professional Roles in Nursing covers many topics including the history of nursing, development of the profession, ethical and bioethical issues, nursing law and liability, role of the registered nurse, leadership and management, diversity in current practice, and alternative and complementary healing practice. Prerequisite: Admission to online nursing program, NUR 280, NUR 281, NUR 282, NUR 283 Co-requisite: NUR 285, NUR 286, NUR

287, NUR 288 Credit: 1 semester hour Lecture: 1 online Lab: 0

NUR 285 -

Mental Health Nursing $PCS \cdot 12$ IAI: None Mental Health Nursing uses the nursing process to assess clients and families with physiological, psychological, sociocultural, developmental and spiritual stressors which impact clients' defenses, disturbing their stability. Nursing interventions to assist clients to achieve a state of wellness are emphasized. Community resources for aiding mental health and treating mental illness will be identified. Prequisite: Admission to online nursing program, NUR 280, NUR 281, NUR 282 and NUR 283 Co-requisite: NUR 286, ENG 103. SPH 131 Credit: 2 semester hours Lecture: 2 online Lab 0

NUR 286 – Mental Health Nursing Clinical IAI: None PCS:

IAI: None PCS: 1.2 Mental Health Nursing Clinical applies the nursing process using primary, secondary and tertiary prevention/interventions in community, acute care and mental health settings.. Prerequisite: Admission to online nursing program, NUR 280, NUR 281, NUR 282, NUR 283

Co-requisite: NUR 284, NUR 285 Credit: 3 semester hours Lecture: 0 Lab: 3

NUR 287 – Medical/Surgical Nursing III

IAI: None PCS: 1.2 Medical/Surgical Nursing III builds on previous content, with an emphasis on applying the nursing process to clients with medical and/or surgical conditions. Topics include assessment and interventions for clients with emergency, sensory, endocrine, integumentary and renal conditions.

Prerequisite: Admission to online nursing program, NUR 280, NUR 281, NUR 282, NUR 283 Co-requisite: NUR 284, NUR 288 Credit: 3 semester hours

Lecture: 3 Lab: 0

NUR 288 – Medical/Surgical Nursing III Clinical IAI: None

PCS: 1.2

Medical/Surgical Nursing III Clinical builds on previous content, with an emphasis on applying the nursing process to multicultural clients with medical and/or surgical conditions. Topics include assessment and interventions for clients with emergency, sensory, endocrine, integumentary and renal conditions.

Prerequisite: Admission to online nursing program Co-requisite: NUR 284, NUR 287 Credit: 3 semester hours Lecture: 0 Lab: 6

OFFICE TECHNOLOGY SYSTEMS

Division of Business/Computers and Information Systems (815) 921-3101

OFF

12

Lab. 2

12

Lab: 2

OFF 115 – File Management (Approval Pending) IAI: None

File Management will provide instruction to anyone needing to know the legal, technical, and social aspects of electronic notebooks, recordkeeping, groupware, document management, knowledge management, or other collaborative systems used in organizations. Students will examine office technological environments and associated strategies for managing electronic records, electronic workflow techniques, and how to establish an effective electronic document retrieval system. *Prerequisites: None*

Credits: 2 semester hours Lecture: 1

OFF 118 -Computer Keyboarding IAI: None

Computer Keyboarding is taught on a microcomputer as an independent study course and/or as a regular short course. The course is designed so that students can acquire the skill to effectively use touch typing to input alphabetical and numerical data into a computer or to type on a typewriter. A pass/fail grading system is used. *Prerequisite: None Credit: 1 semester hour Lecture: 0 Lab: 2*

OFF 121 -Advanced Document Preparation and Design

IAI: None 12 Using Microsoft Word and other Microsoft Office applications students improve their document creation and formatting skills by creating complex documents. Students use advanced features of Microsoft Word including merging Word documents with database information, automating documents with macros and forms, and creating Online documents. Emphasis is on producing high quality professional documents. Student's keyboarding speed and accuracy is emphasized with frequent drills and practice. Prerequisite: PCI 106, grade of "C" or hiaher.

Credit: 3 semester hours Lecture: 2

OFF 122 -Office Technology Practicum IAI: None

IAI: None 1.2 Using Microsoft Office students create business documents for a simulated company. Students work with realistic workplace projects to integrate business vocabulary, critical thinking strategies, and Webresearch with advanced document processing skills. This course reviews both Core and Expert MOS Competencies for Microsoft Word.

Prerequisite: OFF 121, Grade of "C" or higher, or consent of instructor. Credit: 3 semester hours Lecture: 2 Lab: 2

OFF 131 -Independent Study – Office Software Applications IAI: None

IAI: None 1.2 Independent Study – Office Software Applications is designed for those individuals who have software skills but would like the opportunity to complete additional business software applications. It provides the opportunity for students to return periodically to work with new software as it becomes popular in the business community. Prerequisite: PCI 106 or consent of instructor.

Credit: 1-6 semester hours Lecture: 0 Lab: 2-12

OFF 137 -

 Machine Transcription

 IAI: None
 1.2

 Transcription develops speed and accuracy in transcribing business documents from recorded material. Emphasis is placed on improving grammar, punctuation, and

proofreading skills as well as proper operation of transcription equipment. Prerequisite: OFF 121 or equivalent. Credit: 3 semester hours Lecture: 3 Lab: 0

OFF 138 -

Legal Machine Transcription IAI: None

IA: None 1.2 Legal Machine Transcription emphasizes the proper pronunciation, spelling, and definition of legal terms. The correct format for various legal documents is also presented. Students transcribe documents from recorded material. *Prerequisite: OFF 137 and minimum keyboarding speed of 35 words a minute.*

Credit: 3 semester hours Lecture: 3 Lab: 0

OFF 140 -

Medical Machine Transcription IAI: None 1.2

Medical Machine Transcription emphasizes the development of speed and accuracy in transcribing medical documents from recorded material. Students will become more familiar with medical terms and proper formatting of medical documents. Efficient use of various medical references will also be developed. Prerequisite: OFF 137, HLT 110, and minimum keyboarding speed of 35 words a minute. Credit: 3 semester hours Lecture: 3 Lab: 0

OFF 144 -**Insurance Procedures/ Medical Office**

IAI: None 12 Insurance Procedures/Medical Office is an introduction to the medical insurance industry including types of insurance, coding, standard billing forms and benefit calculations. Prerequisite: None Credit: 1 semester hour Lab: 0 Lecture: 1

OFF 147 -Coding

12 IAI None Coding is designed to provide the student with basic coding knowledge in both clinical and hospital-based coding utilizing CPT, ICD-9 and DRG coding concepts. Prerequisite: BIO 171, HLT 110 Credit: 4 semester hours Lecture: 4 Lab: 0

OFF 220 -**Advanced Coding**

1.2 IAI: None Advanced Coding is a course designed to provide the student with advanced, handson coding knowledge in both clinical and hospital-based coding utilizing CPT, ICD-9 and DRG coding concepts. Prerequisite: OFF 147 Credit: 3 semester hours Lab: 0 Lecture: 3

OFF 226 -

Professional Development IAI: None

Professional Development is designed for the development of skills and attitudes that allow students to function successfully in the workplace. Emphasis will be placed on interpersonal skills, communication, goal-setting, employment skills, teamwork, image and other timely business topics. In addition, students will create portfolios to showcase professional work. Prerequisite: None Credit: 3 semester hours Lab. 0

Lecture: 3

OFF 231 -**Office Procedures**

IAI: None

Office Procedures emphasizes essential business procedures and activities. Topics include human relations routine and administrative duties, filing and records management, office ethics, decision making, and problem-solving. Students interested in a specialized office career, such as medical or legal, will complete a semester project focusing on that area of interest. Others will complete a similar project of a general office career.

Prerequisite: None, recommended that this course be taken the last semester of attendance

Credit: 3 semester hours Lecture: 3 Lab: 0

OFF 245 -**Introduction to Health** Information Technology IAI: None

Introduction to Health Information Technology provides an overview of the history of health information technology and the evolution of the profession. Study topics include analysis of record content, (stressing accuracy, completeness, confidentiality and correlation of data) and study of numbering and filing systems with emphasis on retention policies, storage methods and computerization. Prerequisite: None Credit: 3 semester hours Lab: 0 Lecture: 3

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OFF 293 -**Independent Study in Office Technology** IAI: None

1.2 Independent Study in Office Technology allows the student to conduct research or develop an individualized project in an area of special interest in office technology. Course requirements are based on the nature of the subject. Consent of the coordinator is required.

Prerequisite: Completion of 30 semester hours of credit in the Office Technology curriculum. Repeat of this course to a maximum of three credits is permissible. Credit: 1-3 semester hours Lecture: 1-3 Lab: 0

OFF 294 -**Office Internship**

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IAI: None 12 Office Internship enables the student to work in a business setting. The student is responsible for securing the site for a full or part-time office position. The requirements for this course are individualized. Prior to enrolling, students must have approval to enroll from the instructor. This course may be repeated two times. Prerequisite: 30 hours of credit in the Office Technology curriculum Credit: 1-3 semester hours Lecture: 0 Lab: 5-15

PERSONAL COMPUTER **INFORMATION SPECIALIST** PCI

Division of Business/Computers and Information Systems (815) 921-3101

PCI 106 - Microcomputer **Applications/Windows Based** IAI: BUS 902

1.2 Microcomputer Applications/Windows Based is a survey of current applications for microcomputers utilizing hands-on experience with popular software packages operating in the Windows environment. Topics include word processing, electronic

spreadsheets, database systems, presentation software, Internet Web browser, and some background in microcomputer hardware and operating systems. Prerequisite: Keyboard proficiency or concurrent enrollment in OFF 118. Credit: 4 semester hours Lab: 2 Lecture: 3

PCI 180 -Introduction to Computer User **Technical Support**

12 IAI: None Introduction to Computer User Technical Support provides an overview of topics relevant to working in the user support industry. Included are sections on people, processes, technology, and information, and how these components come together to support computer users. Prerequisite: PCI 106 and PCI 206 Credit: 3 semester hours Lecture: 3 Lab: 0

PCI 200 -**Microcomputer Information Systems Practicum** IAI: None

Microcomputer Information Systems

1.2

Practicum is a course designed to acquaint students with the methodologies involved in designing, developing, and documenting information systems solutions to business problems by using personal computers. The systems development life cycle methodology is presented along with spreadsheet and database software. With this background, students will design a solution to their own systems problem. Prerequisite: PCI 106, PCI 206 Credit: 3 semester hours Lab: 5 Lecture: 2

PCI 206 -Advanced Microcomputer **Applications/Windows Based**

IAI: None 1.2 Advanced Microcomputer Applications Windows Based is a survey course presenting Windows applications for microcomputers utilizing hands-on experience with popular software packages, specifically Microsoft Word, Microsoft Excel, Microsoft Access, and Microsoft PowerPoint, Topics include word processing, electronic spreadsheets and database systems along with some background in microcomputer hardware and basic Windows concepts. This course is intended to be an extension of PCI 106.

Prerequisite: PCI 106 Credit: 3 semester hours Lecture: 3 Lab: 0

PCI 226 -**Post Advanced Microcomputer Applications/Windows Based** IAI: None 12

Post Advanced Microcomputer Applications/ Windows Based is a survey of current applications for microcomputers utilizing hands-on experience with popular software packages in the Windows environment. Topics include high-end advanced training in word processing, electronic spreadsheets, presentation software, and database systems, with an emphasis on customization and automation. Prerequisite: PCI 106 and PCI 206 Credit: 3 semester hours Lab: 0 Lecture: 3

PCI 228 -**MOS Certification Preparation** IAI: None

12 MOS Certification Preparation is a preparatory course for the Microsoft Office Specialist certification exam. Students will choose an exam to take from the following: Word Core, Word Expert, Excel Core, Excel Expert, Access Core, Access Expert, PowerPoint Comprehensive: then they will practice skills necessary to pass the exam. Practice exams which simulate the testing environment will be part of the course. At the end of five weeks, students will take the actual exam. Course fee includes the exam fee. Repeatable up to three times. Prerequisite: PCI 106 and PCI 206. PCI 226 for expert level exams. Credit: 1 semester hour Lab. 0 Lecture 1

PERSONAL **COMPUTER TECHNICAL SPECIALIST**

Division of Business/Computer and Information Systems (815) 921-3101

PCT 110 -**Network Essentials** IAI: None

Network Essentials is an introduction to Local Area Networks (LANs). The course is useful for LAN managers, supervisors of LAN managers, users of LANs, or those considering the purchase and installation of a local area network. Topics include needs analysis, methods to evaluate and determine specifications of hardware and software for purchase, installation, management, and troubleshooting of a local area network system. Microcomputerbased local area networks will be emphasized. Advantages and disadvantages of links to a mainframe or mini-computer will be discussed. Students will install a local area network as part of the course. Prerequisite or Corequisite: CIS 102 Credit: 3 semester hours Lab: 0 Lecture: 3

PCT 112 -Windows Server Fundamentals IAI: None

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Windows Server Fundamentals will help develop the skills necessary to implement, install, and manage a Windows Server network. It will focus on Windows software. Implementation of print services, security. login scripts and menus will be demonstrated. Work will be done on network analysis troubleshooting and understanding how Windows Server software works. Prerequisite: PCT 110 or 120 Credit: 3 semester hours Lab. 0 Lecture: 3

PCT 114 -**NetWare Fundamentals**

IAI. None

NetWare Fundamentals is an in-depth study of networks based on Novell's NetWare local area network operating system. The knowledge and skills presented in this course will help the student understand the rapidly growing and changing field of local area networks. Prerequisite: PCT 110 or 120 Credit: 3 semester hours Lab: 0 Lecture: 3

PCT 116 -Voice and Data Cabling IAI: None

12 This is an introductory course in voice and data cabling. It is mapped to BICSI Level 1 Installers certification. Topics include: cabling and safety, introduction to networking, signals and wires, copper and fiber-optic media, cabling standards, structured cabling, cabling tools, cable installation and customer support. Prerequisite: None Credit: 4 semester hours Lecture: 4 Lab: 0

PCT 120 -

РСТ

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Cisco Networking I IAI: None

Networking Fundamentals is the first of four courses in the Cisco Networking Academy program. Topics included in this course are networking standards, networking terminology, protocols, safety, cabling, routers and addressing. Decision-making and problem-solving techniques are applied to solve network problems. Additional instruction is provided in maintenance and use of software, tools and equipment. Prerequisite: CIS 102 Credit: 4 semester hours Lab. 0 Lecture: 4

PCT 122 -**Cisco Networking II** IAI · None

Router Theory and Technologies is the second course of four courses in the Cisco Networking Academy program. Topics included in this course are safety, standards, TCP/IP, routing and administration. Decisionmaking and problem-solving techniques are applied to solve network problems. Prerequisite: PCT 120 Credit: 4 semester hours Lecture: 4 Lab: 0

PCT 124 -**Cisco Networking III**

IAI: None 1.2 LAN Switching and Wireless is the third course of four courses in the Cisco Networking Academy program. Topics included in this course are advanced router configurations, LAN switching, network management and advanced network design. LAN segmentation and fast ethernet will also be covered Prereauisite: PCT 122 Credit: 4 semester hours Lecture: 4 Lab: 0

PCT 126 -**Cisco Networking IV**

IAI: None 12 WAN Network design and WAN protocols are the main topics in the fourth course of the four course sequence in the Cisco Networking Academy program. Topics included in this course are PPP. Frame Relay, Network Security, Access-Control Lists, IP Addressing services and others. Prerequisite: PCT 124 Credit: 4 semester hours Lecture: 4 Lab: 0

PCT 130 -Introduction to Network Security

Fundamentals IAI: None 12

Introduction to Network Security Fundamentals is designed for students and professionals interested in understanding the field of network security and how it relates to other areas of information technology. This course covers physical security, wireless technologies, intrusion detection systems, remote access, Web security, e-mail, authentication, cryptography and various attack methodologies such as denial of service, man-in-the-middle and malware.

Prerequisite: CIS 102 or equivalent computer experience. Credit: 3 semester hours Lecture: 3 Lab: 0

PCT 132 -

Advanced Network Security IAI: None

12 Advanced Network Security is designed for

students and professionals interested in continuing their study of network security. Topics included in this course are: network defense design, security policy design, configuration of firewalls (software and hardware), configuration of VPNs, intrusion detection systems, and IT security management. Prerequisite: PCT 130 Credit: 3 semester hours Lab: 0 Lecture: 3

PCT 140 -**IP** Telephony I

IAI: None 1.2 This course is designed for students and professionals interested in studying telephony and its deployment over IP networks. This course's possible topics include, but are not limited to, telecommunication concepts, the Internet and IP networking, packetized voice, IP telephony protocols, analog and digital interfaces and dial-peers. Prerequisite: PCT 126 (or CCNA Certification) Credit: 4 semester hours Lab. 0 Lecture: 4

PCT 142 -**IP** Telephony II

IAI: None

12 This course is designed for students and professionals interested in studying telephony and its deployment over IP networks. This course's possible topics include, but are not limited to, Cisco CallManager Express and Cisco Unity Express IP Telephony and Voicemail Systems, installation, configuration, monitoring, management, and troubleshooting. Prerequisite: PCT 140 Credit: 4 semester hours Lab: 0 Lecture: 4

PCT 150 -

Fundamentals of Wireless LANs 19 IAI: None

This course introduces the rapidly evolving technology of wireless LANs. Topics included in this course are wireless equipment, wireless security, wireless site surveys and managing wireless networks. Prerequisite: CIS 102, Introduction to Computers Credit: 4 semester hours Lecture: 4 Lab: 0

PCT 210 -Introduction to TCP/IP IAI: None

1.2 Introduction to TCP/IP is a course designed to help the student install, configure and troubleshoot a reliable TCP/IP network. Topics included in this course are designing, building, configuring and managing TCP/IP networks. The student will also implement subnets, configure routers, and explore TCP/IP under current Windows platform. Troubleshooting is included. Prerequisite: PCT 110 or 120 Credit: 3 semester hours Lecture: 3 Lab: 0

PCT 220 -**Cisco Networking V** IAI: None

1.2 Cisco Networking V is the first of four courses designed by Cisco to prepare students for CCNP Certification. Possible course topics include, but are not limited to, advanced IP addressing, OSPF (Open Shortest Path First), multiarea OSPF, EIGRP (Enhanced Interior Gateway Routing Protocol), route optimization, BGP (Border Gateway Protocol), and security. Prerequisite: Must have successfully

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completed Cisco I through IV (PCT 120, 122, 124, and 126) or have equivalent work experience and the CCNA Certification. Credit: 4 semester hours Lecture: 4 Lab: 0

PCT 222 -**Cisco Networking VI** IAI: None

Cisco Networking VI is the second of four courses designed by Cisco to prepare students for CCNP Certification. This course's possible topics include, but are not limited to Remote network connectivity IPsec VPNs, Frame Mode MPLS, Cisco SDM will be utilized in the labs. Cisco Device hardening, IOS Threat defense. Prerequisite: Must have successfully completed PCT 120 - PCT 126 or have equivalent work experience and the CCNA Certification. Credit: 4 semester hours Lecture: 4 Lab: 0

PCT 224 -**Cisco Networking VII**

IAI: None

1.2 Cisco Networking VII is the third of four courses designed by Cisco to prepare students for CCNP Certification. This course's possible topics include, but are not limited to, VLANs (Virtual Local Area Networks), spanning tree protocol, redundant links, multilaver switching, HSRP (Hot Standby Router Protocol), multicasting, and restricting access. Prerequisite: Must have successfully completed PCT 120 - PCT 126 or have equivalent work experience and the CCNA Certification. Credit: 4 semester hours Lecture: 4 Lab: 0

PCT 226 -**Cisco Networking VIII** IAI: None

Cisco Networking VIII is the last of four courses designed by Cisco to prepare students for CCNP Certification. This course's possible topics include, but are not limited to Introductory VoIP concepts, 2, QoS using Cisco SDM, 3, Queueing, Compression and WLAN controllers. Prerequisite(s): Must have successfully completed PCT 120-126 or have equivalent work experience and the CCNA Certification Credit: 4 semester hours Lecture: 4 Lab: 0

PCT 261 -**PC LANs/Repairs** IAI: None

1.2 PC LANs/Repairs is a course designed to acquaint the information specialist with the introductory topics of networking and repairs in the personal computer environment. The course is a less rigorous treatment of the topics covered in PCT 110 and PCT 262 but will still provide hands-on experiences for the student. Prerequisite: CIS 102 Credit: 3 semester hours Lecture: 3 Lab: 0

PCT 262 -**Computer Service and Repair** IAI: None

12 Computer Service and Repair is a course designed to teach the student how to install new machines in a stand-alone or networked environment. Preventive maintenance tasks. troubleshooting techniques, and emergency problem handling will also be presented along with equipment testing and the installation of systems and application software. Prerequisite: CIS 102 and EET 100 Credit: 3 semester hours Lecture: 2 Lab: 2

PCT 270 -

12

Introduction to UNIX/Linux IAI: None

12 Introduction to UNIX/Linux introduces the student to the features of the UNIX/Linux operating system. Topics covered are the functions of a multi-user operating system. file system structure, basic system commands, how to configure user environments, as well as an introduction to shell programming. The student will learn the basic skills needed to function in the UNIX/Linux system environment. Prerequisite: CIS 102; Recommended: CIS 276.

Credit: 3 semester hours Lecture: 3

PCT 271 -Advanced UNIX/Linux

1.2

Lab: 0

IAI: None Advanced UNIX/Linux is the second of two courses on the UNIX/Linux operating system. Topics to be covered will include Kernel tuning techniques, networking, GUIs, advanced script files, and system administration topics. Prerequisite: PCT 270 or equivalent experience. Credit: 3 semester hours Lecture: 3 Lab: 0

PCT 275 -

12

Cisco Firewall Design IAI: None

1.2 Cisco Firewall Design is designed for students and professionals interested in continuing their study of network security. Possible topics include: ACLS and CBAC. AAA Security, PIX firewalls, VPNs, intrusion detection and physical layer security. Prerequisite: PCT 126 Credit: 4 semester hours Lecture: 4 Lab: 0

PCT 290 -

Special Topics in PC Technology 12 IAI: None

Special Topics in PC Technology will cover leading edge topics in the networking arena. This course will often be taught by professionals from the business world. Initial topics being considered are network security, setting up routers, and advanced network design. This course may be repeated three times. Prerequisite: Consult the schedule of classes for the current semester to determine prerequisites and other requirements or contact the instructor. Credit: 1-6 semester hours Lecture: 1-6 Lab: 0

PCT 291 -**Internship/Field Project** IAI: None

Internship/Field Project requires a supervised experience in a networking position in a local cooperating business or nonprofit organization using a cooperative training plan agreed to by the instructor. participating firm, and student. The student must submit an application to the instructor. Consent of the division director is required. Variable credit may be earned up to six hours.

Prerequisite: Current enrollment in the Personal Computer Technical Specialist curriculum, completion of at least 12 hours in PCT courses, and sophomore class standing.

Credit: 1-6 semester hours Lecture: 0 Lab: 5-30

PHILOSOPHY

Liberal Arts Division (815) 921-3317

PHL 150 -Introduction to Philosophy IAI: H4 900

Introduction to Philosophy is a survey of a selection of major philosophical issues. These may include: the nature of human beings, the possibility and limits of human knowledge human freedom and responsibility, the nature of religion, the nature of beauty, and the nature of morality. The course will include a survey of philosophers, their works and some of the philosophical methods and tools used in their theorizing. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

PHL 153 -**Medical Ethics** IAI: None

Medical Ethics provides an examination of a selection of moral issues that arise in healthcare contexts. These may include: truthtelling and the patient, obligations to treat in times of epidemic, universal entitlement to healthcare, assisted suicide, the AIDS crisis, healthcare reform, surrogate motherhood, and genetic engineering. Also included will be a brief examination of metaethical theories and principles to be used in analyzing the individual moral issues. Prerequisite: None Credit: 3 semester hours Lab: 0 Lecture: 3

PHL 154 -

Introduction to Religion IAI: H5 900

Introduction to Religion is an introduction to the concept of religion within society, treating the nature, origin, beliefs, practices and roles that religion plays. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

PHL 155 -World Religions IAI: H5 904N

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1.1 World Religions is a survey of the major religions of the world. This course will include a philosophical examination of the histories and selected teachings, practices and institutions of major Eastern and Western religions, such as Buddhism, Christianity, Confucianism, Hinduism, Ilsam, Jainism, Judaism, Shinto, Sikhism, and Taoism. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

PHL 156 -**Religion in American Society** IAI: H5 905

A survey of the contribution of religion to American culture, including the differences between rural and urban society; the development of religious freedom and the rise of "secular religion." Examines the emergence of new forms of belief and practice and the variety of religious issues confronting American society today. Prerequisite: None Credit: 3 semester hours Lab: 0 Lecture: 3

11

PHL 157 -Foundational Religious Texts IAI: H5 901

11 Foundational Religious Texts is the humanistic study of one or more of the foundational documents of the world's major religions, such as the Hebrew Bible, the New Testament, the Qur'an (Koran), or the Vedas. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

PHL 255 -Logic

IAI: H4 906

1.1 Logic is an examination of the nature of reason and argumentation. The course will focus on developing formal and informal tools and techniques for evaluating arguments and for sharpening one's own reasoning skills. Topics covered may include: nature of thought, language and meaning, definitions, argument recognition, argument interpretation, informal fallacies, syllogistic and propositional logic. Prerequisite: None Credit: 3 semester hours Lab. 0 Lecture: 3

PHL 256 -

Contemporary Moral Issues IAI: H4 904

Contemporary Moral Issues combines an extensive treatment of different theories of morality with an application of these theories to a selected group of particular moral issues dominant in contemporary culture. These may include: abortion, homosexuality, corporal punishment, capital punishment, obligations in times of famine, animal rights, and civil disobedience. Prerequisite: None Credit: 3 semester hours Lab: 0 Lecture: 3

11

PHL 260 -**Philosophy of Religion** IAI: H4 905

1.1 Philosophy of Religion provides a critical examination of the central philosophical issues associated with religion. Topics may include such things as the existence and nature of a deity, good and evil, miracles, souls, life after death, and revelations and may include such relationships as those between myth and religion, religious experience and justification, faith and knowledge, and between religious beliefs and moral conduct. Prerequisite: None Credit: 3 semester hours Lab: 0 Lecture: 3

PHOTOGRAPHY

- See Graphic Arts Technology

PHYSICAL EDUCATION

- See Fitness, Wellness, and Sport

PHYSICAL SCIENCE

- See Astronomy, Chemistry, Geoscience, Physics

PHYSICAL **GEOGRAPHY**

PGE

1.1

Science Division (815) 921-3471

PGE 100 -**Physical Geography** IAI: P1 909

Physical Geography is an introduction to the geographical features of the Earth's natural environment. The course examines the physical, chemical and biological processes that shape these features and control their spatial distribution: the dependence of human society on the natural environment; and the ways in which humans intentionally and unintentionally modify the natural environment. Prerequisite: Sufficiently high placement test score, or completion of MTH 091 & 092 with a grade of "C" or better, or equivalent. Credit: 3 semester hours Lecture: 3

Lab: 0
PGE 102 -**Physical Geography With Lab** IAI: P1 909L

1.1 Physical Geography With Lab is an introduction to the geographical features of the Earth's natural environment. The course examines the physical, chemical and biological processes that shape these features and control their spatial distribution; the dependence of human society on the natural environment: and the ways in which humans intentionally and unintentionally modify the natural environment. The lab component of the course provides handson application of these geographic concepts using exercises, experiments and the interpretation of topographic maps and aerial photographs.

Prerequisite: One year of high school algebra or its equivalent. Sufficiently high placement test score, or completion of MTH 091 & 092 with a grade of "C' or better, or equivalent.

Credit: 4 semester hours Lecture: 3 Lab: 3

PGE 203 -

Global Environmental Change IAI: None

1.1 Global Environmental Change is an interdisciplinary, scientific examination of the Earth's continually changing environment. The course explores the structure and interrelationship among the Earth's geologic, biologic, and physical-chemical systems from both a contemporary and historical perspective, and it addresses the potential environmental effects of humaninduced modifications to those various systems. Contemporary environmental issues are discussed in detail from an Earth Systems perspective.

Prerequisite: Sufficiently high placement test score, or completion of MTH 091 & 092 with a grade of "C" or better, or equivalent Credit: 3 semester hours

Lab: 0

PHY

Lecture: 3

PHYSICS

Science Division (815) 921-3471

PHY 201 -**Mechanics and Heat**

IAI: P1 900L 1.1 Mechanics and Heat is an algebra/trigonometry-based study of physics. Topics covered include kinematics, Newton's Laws, momentum, rotational motion, energy, wave motion, and heat. This course is designed to meet the requirements of many liberal arts, architectural, and pre-professional students. Prerequisite: MTH 125 or equivalent with a minimum grade of "C." Credit: 5 semester hours Lab: 3 Lecture: 4

PHY 202 -Waves, Electricity, Light, and **Modern Physics**

IAI · None 1.1 Waves, Electricity, Light, and Modern Physics is a continuation of PHY 201. Topics studied include electricity and magnetism. light and optics, and modern physics. Prerequisite: PHY 201 or equivalent. Credit: 5 semester hours Lecture 4 Lab. 3

PHY 215 -Mechanics, Wave Motion, and Thermodynamics IAI: P2 900L

1.1 Mechanics, Wave Motion, and Thermodynamics is a calculus-based study of the kinematics and dynamics of the motion of rigid bodies, wave propagation, and thermodynamics. Topics covered include accelerated motion. Newton's Laws. momentum, energy, rotational motion, gravitation, wave propagation, sound, and heat. PHY 215 and 225 are required of all students majoring in engineering, chemistry or physics. The class will meet for three hours of lecture, one hour required discussion, and three hours of laboratory per week. Prerequisite: MTH 135 with a minimum grade of "C", concurrent enrollments in MTH 235. Recommended one year of high school physics, or PHY 201. Credit: 5 semester hours Lecture: 4 Lab: 3

PHY 225 -Electricity, Magnetism, Light and **Modern Physics**

IAI: None Mechanics, Wave Motion and Electricity, Magnetism, Light and Modern Physics is a continuation of PHY 215. Topics studied include electric fields, electric currents, AC electric circuits, electromagnetism, relativity, optics, light and selected topics from modern physics. The class will meet for three hours of lecture, one hour required discussion and three hours of laboratory per week.

Prerequisite: MTH 235 with a minimum grade of "C", PHY 215, and concurrent enrollment or credit in MTH 236 Credit: 5 semester hours Lecture: 4 Lab. 3

POLITICAL SCIENCE

Liberal Arts Division (815) 921-3317

PSC 160 -**American National Government** IAI: S5 900 1 1

American National Government is an introduction to the national government, including its structure, powers, and relationship to the American people. Topics include the legislative, executive, and judicial branches, civil rights and civil liberties, political parties and interest groups. Current events are emphasized throughout the course. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

PSC 161 -

State and Local Government IAI: S5 902

11 State and Local Government is an introduction to state and local government in the U.S., with emphasis on Illinois state government and the local governments in the Rock Valley College area. Topics include the legislative, executive, and judicial branches of state government, the urban crisis, and the many and varied local governments in this area. Current events are emphasized throughout the course. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

PSC 210 -

Introduction to the Legal System IAI: None

Introduction to the Legal System is an introduction to the sources, types, functions, and methods of public law and the legal system. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab. 0

PSC 211 -

The American Presidency IAI · None 11 The American Presidency is a survey of the constitutional basis, historical development, and systematic study of the executive branch

Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

PSC 269 -

International Relations IAI: S5 904N 1.1 International Relations is an examination of the major factors which affect international relations with special emphasis on the political, historical, and economic elements. The material will be analyzed from the viewpoint of the United States and our foreign policy. Prerequisite: None Credit: 3 semester hours Lecture: 3

Lab: 0

PSC 280 -

PSC

Introduction to Political Philosophy IAI: PLS 913 1.1

Introduction to Political Philosophy is a survey of major political philosophers and concepts in the history of political thought. The course focuses on classical and modern theorists, emphasizing such concepts as justice, equality, power, liberty, and rights. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0



Nursing programs (815) 921-3261

PNU 103 -**Practical Nursing: Fundamentals** IAI: None 12

Practical Nursing: Fundamentals introduces nursing principles, techniques, and interventions and focuses on the use of the nursing process to meet the needs of clients utilizing concepts from Neuman's Systems Theory. Therapeutic communication skills are integrated throughout the course. The clinical nursing laboratory and selected clinical experiences in community settings are provided concurrently. Prerequisite: Admission to the Practical Nursing program and BIO 185. Corequisite: PSY 170, PNU 107, FWS 237 Credit: 7 semester hours Lecture: 4 Lab: 6

PNU 107 -**Basic Principles of Pharmacology for Nursing** IAI: None

1.2 This course introduces concepts of basic pharmacology. The principles of medication administration and calculation of dosages are emphasized. Practice for medication administration assignments will be required. Prerequisite: Admission to the Practical Nursing or the Associate Degree Nursing program and Math 095 or two semesters of high school algebra in the past five years. Credit: 1 semester hour Lecture: 1 Lab: 0

PNU 120 -Nursing Throughout the Lifespan: **Mental Health** 12

IAI: None Nursing Throughout the Lifespan: Mental Health focuses on the use of the nursing process to meet the needs of the client experiencing mental disorders utilizing concepts from Neuman's Systems Theory. The mental health aspects of growth and development are presented, as are common mental disorders specific to the child and through the middle adult years. Prerequisite: PNU 103, PNU 107, PSY 170 Corequisite: ENG 101 Credit: 1 semester hour Lecture: 1 Lab: 0

PNU 140 -Nursing Throughout the Lifespan: **Conception Through Adolescence** IAI: None

This course focuses on the use of the nursing process to meet the needs of the client from conception through adolescence. Selected clinical experiences in community and acute care settings are provided concurrently.

Prerequisite: PNU 103, PNU 107, PSY 170 Corequisite: ENG 101, PNU 120 Credit: 6 semester hours Lecture: 3 Lab: 6

PNU 160 -Nursing Throughout the Lifespan: Young Adult Through Middle Adulthood IAI: None 1.2

Nursing Throughout the Lifespan: Young Adult through Middle Adulthood focuses on the use of the nursing process to meet the needs of the client from young adulthood through middle adulthood utilizing concepts from Neuman's Systems Theory. The normal physiologic and psychosocial aspects of growth and development are presented, as are common illnesses specific to the young adult through middle years. Selected clinical experiences in the acute care setting are provided concurrently. Prerequisite: PNU 103 and PNU 107 Corequisite: ENG 101. PNU 120 Credit: 6 semester hours Lecture: 3 Lab: 6

PNU 201 -Nursing Throughout the Lifespan: Geriatric IAI: None

1.2 Nursing Throughout the Lifespan: Geriatric focuses on the use of the nursing process to meet the needs of the elderly utilizing concepts from Neuman's Systems Theory. The normal physiologic and psychosocial aspects of aging are presented as are common illnesses affecting the elderly. Selected clinical experiences in community settings are provided concurrently. Prerequisite: PNU 160 Credit: 6 semester hours Lab. 6 Lecture: 3

PSYCHOLOGY

Liberal Arts Division (815) 921-3317

Students who plan to major in psychology are strongly urged to take MTH 220-Elements of Statistics.

PSY 170 -General Psychology

IAI: S6 900 1.1 General Psychology is an introduction to the entire area of psychology through a presentation of historical and current theory and research. Topics include learning, motivation, perception, emotion, personalitv. and adjustment. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

PSY 176 -**Behavior and Personal Adjustment** IAI: None 1.1

Behavior and Personal Adjustment focuses on what psychologists have learned about human behavior and how to use this knowledge in order to evaluate and (if they so choose) to change their own attitudes and behavior. Prerequisite: None Credit: 3 semester hours Lecture: 3

Lab: 0

PSY

PSY 225 -**Child Development**

IAI: S6 903 1.1 Child Development introduces the theory, research, and changes dealing with human development from the time of conception to adolescence. Topics included are genetic factors, prenatal development, perceptual system changes, motor system development, language acquisition, social learning, cultural influences, and common problems relevant to the developmental processes. Prerequisite: A grade of "C" or better in ENG 101. PSY 170 or instructor consent. Credit: 3 semester hours Lecture: 3 Lab: 0

PSY 250 -

Psychology of Personality IAI: PSY 907

1.1 Psychology of Personality is a scientific study of the origins of individual differences in thought, emotion and behavior. Topics covered will include: research methods; personality assessment; the psychoanalytical and neopsychoanalytical approaches; the trait approach; the humanistic approach; the cognitive approach; the biological approach; and the behavioral/social learning approach. Prerequisite: A grade of "C" or better in ENG 101. PSY 170 or instructor consent. Credit: 3 semester hours Lecture: 3 Lab. 0

PSY 270 -Lifespan Developmental Psychology

IAI: S6 902 1.1 Lifespan Developmental Psychology reviews aspects and changes which occur during a person's life from the time of prenatal development through death Prerequisite: A grade of "C" or better in ENG 101. PSY 170 or instructor consent. Credit: 3 semester hours Lecture: 3 Lab: 0

PSY 271 -**Educational Psychology** IAI: None

1.1 Educational Psychology investigates the application of psychological principles and research to the process and techniques of teaching and learning. Special emphasis is given to formal education from both the perspective of student and instructor Prerequisite: A grade of "C" or better in ENG 101; and PSY 170 or instructor consent. Credit: 3 semester hours

Lecture: 3

PSY 275 -

Social Psychology IAI: S8 900

1.1 Social Psychology is the study of human behavior as influenced by groups. Typical topics of investigation will be aggression, person perception, pro-social behavior, prejudice, group dynamics, attitudes, social influence, and interpersonal attraction. Prerequisite: A grade of "C" or better in ENG 101. PSY 170 or instructor consent. Credit: 3 semester hours Lecture: 3 Lab: 0

145

Lab: 0

PSY 276 -**Abnormal Psychology** IAI: None

1.1 Abnormal Psychology is the study of psychopathology, its causes, its symptoms, and its treatment. Topics covered include theories of abnormal behavior, diagnosis and classification of problems, types of abnormality, individual and societal costs, intervention and treatment. Prerequisite: A grade of "C" or better in

ENG 101. PSY 170 or instructor consent. Credit: 3 semester hours Lecture: 3 Lab. 0

14

RDG READING

Success Center (815) 921-2370

RDG 075 -**Reading for Bilingual Students** (Pending ICCB Approval) IAI: None

Reading for Bilingual Students is designed for students whose first language is not English The intent of this course is to help students improve their reading skills in English to the level necessary to succeed in RDG 099. The course will focus on comprehension, vocabulary improvement and the ability to select skills and strategies appropriate to a specific reading task. Placement based on assessment scores. Prerequisite: None Credit: 4 semester hours Lecture: 4 Lab: 0

RDG 080 -**Basic Reading Skills** IAI: None

1.4 Basic Reading Skills helps students improve their reading skills to the level necessary for entrance to Reading 096. Emphasis is on vocabulary development, comprehension, and study strategies. Placement based on entrance assessment scores. Prerequisite: None Credit: 5 semester hours Lecture: 5 Lab: 0

RDG 096 -**Essentials of Reading** IAI: None

1.4 Essentials of Reading is intended to help students improve their reading skills to the level necessary for entrance to Reading 099. Emphasis is on improvement of vocabulary, comprehension, study strategies, and time management. Special placement based on entrance assessment scores. Prerequisite: None

Credit: 4 semester hours Lecture: 4 Lab: 0

RDG 099 -**Reading and Study** Skills Improvement IAI: None

1.4 Reading and Study Skills Improvement emphasizes improvement of the reading process and study skills necessary for understanding and learning college-level material. Students will become proficient in the use of strategies to further the development of comprehension, effective reading of college textbooks, lecture notetaking, vocabulary, and recreational reading. Special placement based on entrance assessment scores; or on a voluntary basis. Prerequisite: None Credit: 4 semester hours Lecture: 4 Lab: 0

RDG 101 -**College Reading** IAI: None

11 College Reading focuses on reading flexibility, critical reading techniques, lecture processing skills, and test cycle evaluation. The course includes developing time management skills and applying study skills to individual student's college course material. Prerequisite: Placement is voluntary to students who are not mandated into RDG 080. 096, 099. This course is highly recommended for students who have marginal assessment scores, are on academic probation, or need to develop successful study strategies. Credit: 2 semester hours Lecture: 2

RESPIRATORY CARE

Division of Allied Health and Human Services (815) 921-3200

RSP 111 -**Applied Sciences** IAI. None

Applied Sciences provides a foundation in the basic sciences relevant to respiratory care. Areas covered include chemistry, physics, microbiology, and mathematics. (Offered fall semester.) Prerequisite: Admission to the Respiratory Care program. Credit: 3 semester hours Lab: 0 Lecture: 3

RSP 112 -Patient Assessment

IAI · None 12 Patient Assessment provides an understanding of how the patient assessment procedures of medical record review, patient interview, and physical examination are performed and how this information with radiological examination and laboratory assessment can be used to evaluate a patient's health status and response to treatment. (Offered fall semester.) Prerequisite: Admission to the Respiratory Care program or instructor permission. Credit: 3 semester hours Lecture: 3 Lab: 0

RSP 113 -**Cardiopulmonary Anatomy** and Physiology

IAI: None 12 Cardiopulmonary Anatomy and Physiology provides an in-depth study of pulmonary and cardiovascular anatomy and physiology. Ventilation, circulation, blood gas transport, and acid-base balance are closely examined. Kidney function and fetal pulmonary and cardiovascular development are also studied. (Offered fall semester.) Prerequisite: BIO 185 with a minimum grade of "C" or instructor permission. Credit: 3 semester hours Lecture: 3 Lab: 0

RSP 114 -**Clinical Medicine**

IAI: None 1.2 Clinical Medicine is an overview of diseases of the cardiopulmonary and related systems requiring medical and/or surgical intervention. Each pathological process will be discussed with regard to etiology, pathophysiology, diagnosis, treatment and prognosis. (Offered spring semester.) Prerequisite: RSP 113 Credit: 3 semester hours Lecture: 3 Lab: 0

RSP 121 -Respiratory Care Practices and Procedures I

12 IAI: None Respiratory Care Practices and Procedures I provides classroom instruction and laboratory practice for the equipment used to provide general respiratory care. Classroom instruction and laboratory practice is provided for many general respiratory care procedures. (Offered fall semester.) Prerequisite: Admission to the Respiratory Care program. Credit: 5 semester hours Lecture: 4 Lab: 2

RSP 122 -**Respiratory Care Practices and Procedures II**

IAI: None 1.2 **Respiratory Care Practices and Procedures** II provides a continuation and completion of classroom instruction and laboratory practice for general respiratory care procedures. Following this, there is instruction and discussion on the integrated processes of patient assessment and care planning for general respiratory care procedures. (Offered spring semester.) Prerequisite: RSP 121 with minimum grade of "C." Credit: 5 semester hours Lecture: 4 Lab: 2

RSP

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Lab: 0

RSP 123 -**Respiratory Pharmacology** IAI: None

1.2 Respiratory Pharmacology is an introduction to the theory and use of medications, with emphasis on those used in cardiorespiratory care. Content will include dosages, actions, indications, contraindications and hazards of drugs, and drug dose calculations. Normal physiology and pathophysiology are reviewed to clarify the role of medications in the treatment of disease processes. (Offered spring semester.) Prerequisite: Admission to the Respiratory Care program or instructor permission. Credit: 3 semester hours Lecture: 3 Lab: 0

RSP 131 -Clinical Practice I IAI: None

Clinical Practice I is an introduction to the respiratory care profession and general healthcare-related concepts. Instruction is provided for clinical practices that can affect the safety of both patients and practitioners. The expectations for student performance in the clinical setting are discussed. Students will be involved in hospital orientation and introductory patient care activities toward the end of the course. (Offered fall semester.) Prerequisite: Admission to the Respiratory Care program and RSP 112 with a minimum grade of "C." Credit: 2 semester hours Lah· 4 Lecture: 2

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RSP 132 -

Clinical Practice II IAI · None

Clinical Practice II provides supervised observation, practice, and evaluation of patient assessment and general respiratory care procedures in the clinical setting. (Offered spring semester.) Prerequisite: RSP 131 with minimum grade of "C." Credit: 3 semester hours Lecture: 0 Lab: 16

RSP 221 -**Respiratory Care Practices and Procedures III** 12

IAI: None

Respiratory Care Practices and Procedures III provides classroom instruction and laboratory practice for continuous mechanical ventilation and an introduction to critical care procedures. (Offered summer semester.) Prerequisite: RSP 122 with a minimum grade of "C." Credit: 3 semester hours Lab: 2 Lecture: 2

RSP 222 -**Cardiopulmonary Testing and** Rehabilitation

IAI: None 1.2Cardiopulmonary Testing and Rehabilitation provides the student with an in-depth study of pulmonary function testing in the lecture and laboratory setting

including types of tests, test results analysis, diagnostic value of the analysis, pulmonary function testing equipment, and the standards for equipment and test performance. Additional areas of study include pulmonary and cardiac stress testing, pulmonary rehabilitation, performing an electrocardiogram, cardiac arrhythmia recognition, sampling arterial blood, blood gas analyzer function, and the quality assurance standards for blood gas analyzers. Field trips into local hospitals may be included. (Offered summer semester.) Prerequisite: Enrollment in the Respiratory Care program or instructor permissionCredit: 3 semester hours Lecture: 2 Lab: 2

RSP 223 -**Respiratory Care Practices** and Procedures IV IAI: None

12 Respiratory Care Practices and Procedures IV provides an in-depth study in the lecture and laboratory setting of mechanical ventilatory support and its use in respiratory care as well as the critical application of advanced principles involved in patient care. Emphasis is on the physiological principles involved in patient care as well as the clinical application of these principles to adult patients. The use of the pulmonary artery catheter, end-tidal carbon dioxide measurement and other monitoring procedures will be studied as they are applied to advanced cardiopulmonary monitoring. Airway management options will be discussed and adult and infant intubation will be practiced on mannequins. Fundamental principles of respiratory home care will be presented. (Offered fall semester.) Prerequisite: RSP 221 with minimum

grade of "C."

Lab: 2

1.2

Credit: 4 semester hours Lecture: 3

RSP 224 -**Neonatal and Pediatric Respiratory Care**

IAI: None

Neonatal and Pediatric Respiratory Care provides the student with information related to fetal development, neonatal assessment before birth, during the deliverv process and after delivery and cardiopulmonary care of the sick newborn including, but not limited to, airway management, oxygen therapy, and mechanical ventilation. Additional discussion will include assessment and cardiopulmonary care of the sick pediatric patient. Guest lecturers may be brought in to present topics related to the high risk nursery. (Offered fall semester.) Prerequisite: Enrollment in the Respiratory Care program or instructor permission. Credit: 2 semester hours Lecture: 2 Lab: 0

RSP 225 -**Respiratory Care Seminar**

IAI: None 1.2 Respiratory Care Seminar has a format that allows for a variety of pertinent, current respiratory care and healthcare topics to be presented as needed. Set topics will include preparation for the National Board for Respiratory Care's Entry Level Exam, Written Registry Exam, and Clinical Simulation Exam; critical thinking, clinical practice guidelines, and therapist-driven protocols. Guest speakers may be brought in from the area healthcare providers to share their expertise. (Offered spring semester.) Prerequisite: Enrollment in the Respiratory Care program or instructor permission. Credit: 3 semester hours Lecture: 3 Lab: 0

RSP 231 -

Clinical Practice III IAI: None 1.2 Clinical Practice III provides supervised observation, practice, and evaluation of more advanced respiratory care skills. These skills include administration of respiratory care procedures and mechanical ventilation to critically ill patients and the use of advanced patient assessment procedures. (Offered fall semester.) Prerequisite: RSP 132, 221, 222 with minimum grades of "C." Credit: 3 semester hours Lecture: 0 Lab: 16

RSP 232 -

Clinical Practice IV IAI: None 1.2 Clinical Practice IV provides a continuation of supervised observation, practice, and evaluation of the skills learned in RSP 231. Increasing emphasis is placed on the assessment and management of critically ill patients. Additionally, there are scheduled experiences for intubation, home care, and other special experiences in respiratory care. (Offered spring semester.) Prerequisite: RSP 231 with minimum grade of "C." Credit: 3 semester hours Lecture: 0 Lab: 16

RSP 250 -

Special Topics in Respiratory Care IAI. None

Special Topics in Respiratory Care is designed to satisfy specific needs or interests of Respiratory Care majors and/or the healthcare community. Exact course requirements and hours of credit are based on the nature of the topics under study. A maximum of four credit hours can be earned. Prerequisite: Previous course work in Respiratory Care and/or instructor permission. Credit: 1-4 semester hours Lecture: 1-4 Lab: 0

SOCIOLOGY

SOC

Liberal Arts Division (815) 921-3317

SOC 190 -Introduction to Sociology IAI: S7 900

1.1 Introduction to Sociology includes a study of the major concepts and principles of sociology. The nature of the human social group and the social institution are studied with particular emphasis on American social patterns. Prerequisite: None Credit: 3 semester hours Lab: 0 Lecture: 3

SOC 290 -

Social Problems IAI: S7 901

11 Social Problems provides an analysis and evaluation of selected social problems peculiar to contemporary American society. Sociological principles and concepts will be the basic tools for analysis. The student will have an opportunity to engage in research on a problem of their choice. Prerequisite: SOC 190 or consent of the instructor.

Lab: 0

Lab. 0

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Credit: 3 semester hours Lecture: 3

SOC 291 -Criminology

IAI: CRJ 912

1.1 Criminology is a study of crime as a form of deviant behavior. It includes a survey of schools and theories of criminology with special emphasis on crime in relation to social structure and social institutions. Special attention is given to career criminals, "white collar crime," and the treatment of criminals in the justice system. Prerequisite: SOC 190 or consent of the instructor. Credit: 3 semester hours

Lecture: 3

SOC 292 -**Sociology of Deviance** IAI: None

Sociology of Deviance examines the sociological study of the origins, causes and control of deviance and deviant behavior which is seen as a labeling process. Emphasis is placed on individual and group deviance, resulting from societal norms and values. Primary areas to be covered include drug abuse, sexual deviance, marginal deviance, and career deviance. Prerequisite: SOC 190 or consent of instructor. Credit: 3 semester hours Lecture: 3 Lab: 0

SOC 293 -

The Aging Process IAI: None

The Aging Process is a basic introduction to the field of gerontology. The process of aging will be viewed from several theoretical perspectives. Special emphasis will be placed on the role of the aged in Western society. Prerequisite: SOC 190 or consent of instructor. Credit: 3 semester hours Lecture: 3 Lab: 0

SOC 294 -**Urban Sociology**

IAI: None

Urban Sociology is the study of the historical development, growth, nature, structure and function of the city. Emphasis is placed on social relationships and social institutions in the city. The patterning of metropolitan areas, the process of ghettoization, suburbanization, and the ecology of the city are covered. Prerequisite: SOC 190 or consent of instructor. Credit: 3 semester hours Lecture: 3 Lab: 0

SOC 295 -**Racial and Ethnic Relations** IAI: S7 903D

1.1 Racial and Ethnic Relations presents an analysis of the origins, causes and theoretical explanation of prejudice, discrimination and stratification as related to racial and ethnic groupings in American society. The course deals with the impact of conflict and socio-cultural changes on majority-minority relations and current trends in ethnic/racial identity. In addition, race and ethnic relations worldwide will also be discussed Prerequisite: SOC 190 or consent of instructor. Credit: 3 semester hours

Lecture: 3 Lab. 0

SOC 298 -

Sociology of Sex and Gender IAI: S7 904D

Sociology of Sex and Gender will focus on the multifaceted similarities and diversities between sex and gender within various environments and social situations. The course will focus on the social construction of gender and its impact on men and women in the workplace, family environment, personal, and intimate relationships. Prerequisite: SOC 190 or equivalent. Credit: 3 semester hours Lecture: 3 Lab: 0

SOC 299 -Marriage and the Family IAI · S7 902

11 Marriage and the Family is a study of the institutions of marriage and the family. The course will be presented from an interdisciplinary perspective with major emphasis on the American family and marriage. Prerequisite: SOC 190 or consent of the instructor. Credit: 3 semester hours Lecture: 3 Lab: 0

SPANISH

- See Modern Languages

SPEECH

Liberal Arts Division (815) 921-3338

SPH 131 -

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Fundamentals of Communication IAI: C2 900

Fundamentals of Communication is a beginning course in the theory and practice of speech communication. Attention is given to listening, interpersonal and group communication, and public speaking. Students will develop more confidence and skill in oral communication. Prerequisite: ENG 101-Ready, grade of "C" or higher in ENG 099. Credit: 3 semester hours Lecture: 3 Lab: 0

SPH 132 -**Public Speaking**

IAI: None 1.1 Public Speaking prepares students for effective public address through development of important rhetorical skills, including audience analysis, research, content development, attention devices, and delivery. Students will prepare oral presentations which apply advanced rhetorical theory. Prerequisite: ENG 101-Ready, grade of "C" or higher in ENG 099. Credit: 3 semester hours Lecture: 3 Lab: 0

SPH 141 -

Business and Professional Speech IAI: None

Business and Professional Speech is designed to serve students who plan on careers in business, industrial, technical or professional fields. Students will learn to make effective presentations for individuals and groups through accurate research. careful organization, and engaging delivery. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

SPH 142 -

Gender Communication IAI: None

1.1 Gender Communication is an introductory examination of the communication differences between men and women. Students will become more aware of how: (1) gender roles influence communication and (2) how gender expectancies are constructed through communication.

Prerequisite: None Credit: 3 semester hours Lecture: 3

SPH 201 -

Interpersonal Communications IAI: None 1.1

Interpersonal Communications examines the ways in which people relate with each other. Relationships in family, work and social contexts will be examined in order to improve communication skills for satisfying encounters. Prerequisite: None

Credit: 3 semester hours Lecture: 3

Lab: 0

SPH

SPH 202 -Intercultural Communication

IAI: None 1.1 Intercultural Communication is a study of communication among people who have different cultural backgrounds. The course will focus on the impact of verbal and nonverbal communications, belief systems, use of power, masculine and feminine roles, and language on intercultural communication Students will develop communication skills to overcome intercultural barriers. Prerequisite: None Credit: 3 semester hours

Lab. 0 Lecture: 3

SPH 204 -**Nonverbal Communication**

IAI: None 11 This course is the study of how humans communicate through the use of body movements, touching, vocal variations, and the use of space, time and objects or artifacts. The course will discuss the effects of gender and culture on nonverbal communication. Prerequisite: None Credit: 3 semester hours

Lecture: 3 Lab: 0

SPH 211 -**Group Leadership**

11 IAI: None Group Leadership is a study of leadership techniques and their interrelationship with group dynamics. Students will participate in varied group analyses and problem-solving discussions. Prerequisite: None

Credit: 3 semester hours Lab: 0 Lecture: 3

SPH 230 -**Fundamentals of Oral** Interpretation of Literature IAI: TA 916

Fundamentals of Oral Interpretation of Literature is a basic introduction to the experience of literature through reading aloud and listening to varied genres of prose, poetry, and drama. Interrelationships between literature, reader, and listener are examined to improve oral recitation. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

SPH 299 -**Communication Education** Internship IAI · None

11 Communication Education Internship provides exceptional communications students the opportunity to team-teach a speech course with a full-time faculty member. The student attends all class sessions, prepares lectures, manages class exercises, and offers oral and written reviews of oral performances. The goal of this internship is preparation for a career in communication education. Students may earn a maximum of four credits. This may be repeated one time. Prerequisite: Instructor consent Credit: 2 semester hours Lecture: 0 Lab: 2

Statistics

- See Mathematics

STUDENT DEVELOPMENT

Student Support Services (815) 921-4100

STU 100 -**Planning for Success** IAI · None

Planning for Success is designed to introduce and connect the student to the RVC community and to assist the student in the active development of academic and personal goals. Students will work with instructors to learn strategies for their transition into college. Students are expected to engage in building the skills needed for college success. Course discussions will include academic preparation, self-awareness and RVC community resources Course restricted to students with 30 or less college level credits or with consent of the Coordinator of First Year Experience. Prerequisite: None Credit: 1 semester hour Lab: 0

Lecture: 1

STU 101 -**Career Planning**

IAI: None

1.1

Career Planning is designed to help students improve their life/career planning. Participants will acquire skills for discovering who they are, what they want, and how they can reach their goals. At the conclusion of the program, participants should be able to take more control of their lives. Credit earned is elective credit and will apply to graduation and transfer. Prerequisite: None Credit: 2 semester hours Lecture: 2 Lab: 0

STU 102 -Library Learning Resources: **Business**

IAI · None 11 Library Learning Resources: Business is designed to acquaint students with a variety of sources for business research in both print and electronic formats. Topics include: company research, industry information and government resources. Students will have the opportunity to search online databases and print resources. Prerequisite: None Credit: 1 semester hour Lecture: 1 Lab: 0

STU 299 -Service Learning

IAI: None 1.1 This course teaches the student to apply academic theories about social change through voluntary participation in community service. Prerequisite: Instructor consent Credit: 1-3 semester hours Lab: 1-3 Lecture: 0

SURGICAL TECHNOLOGY SRG

Division of Allied Health and Human Services (815) 921-3200

SRG 101 -

STU

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1.1

Surgical Technology I – Central Service Principles and Practice 12 IAI: None

Surgical Technology I - Central Service Principles and Practice is an introduction to the role of surgical technology including the role and function of the central supply technician. Emphasis is placed on principles and practice related to asepsis, sterilization, disinfection of commonly-used equipment and supplies, processing and care of instruments, care and maintenance of equipment, distribution of supplies and inventory control. Clinical experience in central service is required. Prerequisite: Admission to the Surgical Technology program.

Corequisite: BIO 274, ENG 101, SRG 102 Credit: 4 semester hours Lecture: 2

Lab: 2

SRG 102 -

Surgical Technology II – Principles and Practice IAI: None 12

Surgical Technology II - Principles and Practice introduces the student to the healthcare environment and the role of the surgical technologist. Basic patient care concepts and principles for developing competencies required to assist in surgery are examined. Emphasis is placed on basic surgical procedures, which includes the preoperative, intraoperative and postoperative phases commonly performed in the operating room setting. Concurrent clinical practice in selected surgical facilities is required. Prerequisite: Admission to the Surgical Technology program. Corequisite: SRG 101 Credit: 6 semester hours Lecture 2 Lab: 6

SRG 103 -

Surgical Technology III -**Principles and Practice Specialty** 12 IAI: None

Surgical Technology III - Principles and Practice Specialty will allow the advanced student in surgical technology to apply their knowledge of the diagnosis, operative pathology, objectives, role of the technologist, use of selected equipment, supplies, drugs, sequence and complications of various selected surgeries. Emphasis is placed on the surgical specialties of general and rectal; obstetric and gynecologic; genitourinary; ophthalmic; ear, nose, and throat; oral and maxillofacial; head and neck; plastic; and peripheral vascular. Selected clinical experiences are provided concurrently. Prerequisite: SRG 102 Corequisite: SRG 104, SRG 106

Credit: 5 semester hours Lecture: 2 Lab: 6

SRG 104 -Surgical Technology IV -**Principles and Practice Specialty** IAI: None 12

Surgical Technology IV - Principles and Practice Specialty is a continuation of SRG 103. This course will allow the advanced student in surgical technology to apply their knowledge of the diagnosis, operative pathology, objectives, role of the technologist, use of selected equipment, supplies, drugs, sequence, and complications of various selected surgeries. Emphasis is placed on the surgical specialties of general pediatrics, orthopedic, neurosurgery, cardiothoracic, trauma, and procurement/transplant. Selected clinical experiences are provided concurrently. Prerequisite: SRG 102 Corequisite: SRG 103, 106 Credit: 5 semester hours Lecture: 2 Lab: 6

SRG 105 -

Surgical Technology V – Internship IAI: None 12

Surgical Technology V - Internship provides 20 to 40 hours a week of experience working in the surgical technologist's role in selected surgical sites. Prerequisite: SRG 103, 104, 106 Credit: 4 semester hours Lecture: 0 Lab: 20

SRG 106 -

Surgical Technology Seminar IAI: None

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Surgical Technology Seminar reviews the history of surgical technology as it influences current practice. Emphasis is on the changing role and responsibilities of the surgical technologist and relationships and opportunities within the occupation. Current surgical technology issues are discussed with topics including surgical technology education, ethics, economic issues and changing aspects of the healthcare environment. Prerequisite: SRG 102 Corequisite: SRG 103, 104 Credit: 2 semester hours Lecture: 2 Lab: 0

THEATRE

Theatre Department (815) 921-2167

THE 110 -**Theatre Practicum I** IAI: None

1.1 Theatre Practicum I is designed to give the student practical experience in costuming, stage management, lighting, scene construction, prop construction, and box office management that is not available in a standard classroom setting. Students will increase their efficiency, enjoyment and understanding of the various methods of producing theatrical productions using actual production requirements as a learning tool. Prerequisite: None

150 Credit: 1 semester hour Lecture: 1

THE 111 -Theatre Practicum II IAI: None

1.1 Theatre Practicum II is designed to continue to give the student practical experience in costuming, stage management, lighting, scene construction, prop construction, and box office management that is not available in a standard classroom setting. Students will increase their efficiency, enjoyment and understanding of the various methods of producing theatrical productions using actual production requirements as a learning tool. Prerequisite: THE 110 Credit: 1 semester hour Lecture: 1 Lab: 1

THE 121 -**Performance of Literature** IAI: TA 916

1.1 Performance of Literature is designed to increase the student's understanding of the study and performance of literature, such as essays, letters, novels, poetry and short stories with an emphasis on using voice and movement to interpret the works and communicate that interpretation to an audience. Students will study literary theory, literary analysis, the relationship between the text and the performer and the development of movement and vocal skills. The emphasis is on developing the student's interpretation skills through the performance of selected literature. Prerequisite: None Credit: 3 semester hours Lecture: 1 Lab: 4

THE 133 -Introduction to Theatre IAI: F1 907

1.1 Introduction to Theatre is designed to acquaint students with the theoretical principles of acting, directing, scene design, set construction, costuming, makeup, lighting for the stage, and sound. A survey of theater history and dramatic literature provides a basis for informed critical viewing and for future studies in theater. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

THE 134 -**Stagecraft and Theatre Lighting**

IAI: TA 911 Stagecraft and Theatre Lighting is an introductory course in the principles, procedures, and practices of technical theatrical production using practical experiences in conjunction with departmental presentations. Basic methods of safe scenery construction, scene painting, lighting equipment, and property building are explored. The class emphasis is on safety in a scenic shop. Prerequisite: None Credit: 3 semester hours Lecture: 2 Lab: 2

THE 135 -Acting I

IAI: TA 914 1.1 Acting I is an introduction to the basic elements of acting as an art form. The course centers on exercises to develop the expressiveness of the body and voice combined with a study of the mental and emotional processes of the actor. The class emphasis is on basic performance skill development. Prerequisite: None Credit: 3 semester hours Lecture: 1 Lab: 4

THE 136 -

Directing IAI: None

1.1

Directing is an introductory course in the art of directing for the theatre using a problemsolving approach in surveying the director's responsibilities. Particular attention is focused on the organizational, managerial, and planning functions of the director. The class emphasis is on practical directing problem-solving. Prerequisite: None Credit: 3 semester hours

Lecture: 1 Lab: 4

THE 137 -

Costuming IAI: None

11 Costuming is an introductory course in the design and construction of theatrical costumes. The course is designed to give students a basic understanding of historical costuming, basic safety procedures, techniques of costume and accessory construction, machine and tool use. The course also includes an introduction to sewing-both hand and machine, cutting, draping and pattern drafting and costume shop organization. Practical experience is gained through the construction of costumes for productions. Prerequisite: None Credit: 3 semester hours Lecture: 1

Lab: 4

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THE 210 -

Theatre Practicum III IAI: None

Theatre Practicum III is designed to continue to give the student practical experience in costuming, stage management, lighting, scene construction, prop construction, and box office management that is not available in a standard classroom setting Students will increase their efficiency, enjoyment and understanding of the various methods of producing theatrical productions using actual production requirements as a learning tool. Prerequisite: THE 111 Credit: 1 semester hour Lecture: 1 Lab: 1

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THE 211 -Theatre Practicum IV IAI: None

Theatre Practicum IV is designed to continue to give the student practical experience in costuming, stage management, lighting, scene construction, prop construction, and box office management that is not available in a standard classroom setting. Students will increase their efficiency, enjoyment and understanding of the various methods of producing theatrical productions using actual production requirements as a learning tool. Upon completion of the four Practicum credits, the student will have a portfolio review in preparation for transfer to a baccalaureate program. Prerequisite: THE 210 Credit: 1 semester hour Lecture: 1 Lab: 1

THE 220 -Summer Theatre Workshop IAI: None

Summer Theatre Workshop is an introduction to the unique challenges of outdoor theatre. Students will receive an overview of the production process through a series of lectures and will then select one or more major areas of emphasis. Students will be exposed to production theory through class presentations and readings. Practical experience will be gained through production assignments. Prerequisite: None Credit: 3 semester hours Lecture: 1 Lab: 4

THE 234 -**Design for the Theatre** IAI: TA 911

Design for the Theatre is an introductory design class concentrating on scenic, lighting and property design. The students will take projects from initial design conceptualization through working drawings. Basic draftingboth manual and CAD, mechanical perspective rendering, model construction and lighting theory will be explored in relationship to various dramatic scripts. The class is designed to give the student an introduction to all aspects of theatrical design. Prerequisite: None Credit: 3 semester hours Lecture: 1 Lab: 4

THE 235 -Acting II

IAI: None

Acting II builds upon the skills developed in the basic acting course. It focuses on the development of characterization skills, communication with other actors on stage, and the ability to handle various styles of dramatic literature. The class emphasizes scene work, character-building and character definition with performance outcomes. Prerequisite: THE 135 Credit: 3 semester hours

Lecture: 1 Lab: 4

THE 236 -Directing II IAI: None

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Directing II builds on the skills developed in the basic directing course. It focuses on the development of stage movement through picturization, script analysis, period research, conceptual communication and the actual production of a one-act play. The class emphasis is on directorial communication and conceptualization with a performance as the final outcome. Prerequisite: THE 136 Credit: 3 semester hours Lah· 4 Lecture: 1

THE 237 -Stage Makeup

IAI · None

Stage Makeup is an introductory course in the basics of designing, applying, and creating theatrical makeup. It will introduce the student to the principles of light, shade and color as they relate to makeup. Students will study character makeup, fantasy makeup, various modern mediums, prosthetics, mask making, facial hair and practical applications. The course emphasis is on both design and application. Prerequisite: None Credit: 3 semester hours Lecture: 1 Lab: 4

WEB INFORMATION TECHNOLOGY WEB

Engineering and Technology (815) 921-3101

WEB 101 -**Programming Related** to the Internet

IAI: None 1.2 This course is designed for students and professionals interested in learning how to design and develop Web pages and Web sites. The course covers Web design, copyright, and marketing topics, as well as HTML programming and HTML code generators. Additionally students will learn about Web graphics and scripting languages used to create exciting Web pages. Prerequisite: CIS 102 or equivalent computer experience. Credit: 4 semester hours Lecture: 3

Lab: 2

WEB 102 -Advanced Programming Related to the Internet IAI: None

1.2 This course is designed for students and professionals interested in extending their knowledge of Web programming tools. The emphasis of this course is Web site development, rather than single Web page development. This course includes cascading style sheets, server-side includes, dynamic HTML, the use of HTML code generators and Web graphics to create a Web site, and may also include new topics as they arise, such as XML. This course also introduces

both client and server-side Web scripting. Prerequisite: WEB 101 or equivalent Web development experience. Credit: 4 semester hours Lecture: 3 Lab: 2

WEB 111 -

1.1

11

Introduction to Multimedia IAI: None

Introduction to Multimedia is a course that will acquaint the student with multimedia design principles as well as multimedia creation and manipulation. This class introduces multimedia hardware and software used most often by Web developers creating Web pages which include multimedia elements. Prerequisite: WEB 101 Credit: 3 semester hours Lecture: 3 Lab: 0

WEB 112 -

Advanced Multimedia IAI: None 1.2 Advanced Multimedia Authoring is a continuation of WEB 111 - Introduction to Multimedia. WEB 112 – Advanced Multimedia will enhance the skills of the experienced multimedia user. Advanced scripting techniques will be covered to provide more user interaction. The Internet will be used to access resources. A multimedia project utilizing advanced scripting will be required. Prerequisite: WEB 101, 111 Credit: 3 semester hours Lecture: 3 Lab: 0

WEB 114 -**Digital Media**

12 IAI: None Digital Media is a course that will cover the latest sound, video, image editing, and design software to be incorporated into a multimedia program. Students will create their own media, as well as enhance existing media. DVD, CD, and Internet delivery of digital media will be incorporated into the class. Prerequisite: WEB 111 Credit: 3 semester hours Lecture: 3 Lab: 0

WEB 115 -

Introduction To Digital Imaging 19 IAI: None

In this course, students will become familiar with the work environment of a currently popular digital imaging product, such as Photoshop. Students will learn about tools and palettes, working with selections, layers, masks, channels, retouching, effects, color management, and creating images for print or the Web. Additional topics include the context-sensitive options bar, layer sets and layer styles, weighted optimization, image and text warping, and support for vectorbased art. Students will also learn how to create slices, rollovers, and animations. Prerequisite: Must be concurrently enrolled or should have successfully completed WEB 101 or have equivalent Web development experience. Credit: 3 semester hours Lecture: 3 Lab: 0

151

WEB 220 -**Digital Commercial Art** IAI: None

1.2 Digital Commercial Art is a study in the layout of photo-ready art for reproduction used in computerized commercial art. Topics include typography, symbols, illustration, and photography. Students are introduced to page layout, illustration and photo manipulation software using personal computers. This is a studio class and will visit an advertising agency, a print shop, and a photographic studio. Prerequisite: Completion of or concurrent enrollment in ART 103 and 104 is recommended. Credit will not be granted for both WEB 220 and ART 115 -Introduction to Commercial Art. Credit: 4 semester hours Lecture: 2 Lab: 4

WEB 225 -**Digital Photography**

IAI: None 12 Digital Photography introduces basic digital imaging applications. Emphasis is placed on color theory, calibration, scanning, enhancement, importing and exporting graphic images. Methods of conversion to digital format will be explored. Appropriate computer software related to the subject will be utilized. Prerequisite: CIS 102 Credit: 3 semester hours Lab: 2 Lecture: 2

WEB 230 -Web Rapid Application **Development**

IAI: None 1.2 Web Rapid Application Development uses a currently popular RAD tool such as Macromedia's ColdFusion scripting language to teach the development of dynamic database driven Web applications. Students will be instructed in the development of a structured process for building Web applications for doing business on the Web. The students will be required to build a mock e-commerce Web site from the ground up. They must develop the process flow of their mock business, construct the product database, and develop pages for displaying the product information including building a shopping cart for the "purchase" of items.

Prerequisite: WEB 101. 102. and completion or current enrollment in CIS 254 or 130.

Credit: 4 semester hours Lab. 2 Lecture: 3

WEB 231 -

Web Design and Production IAI: None

Web Design and Production is designed to educate students in the construction of Web sites that incorporate print design styles and principles for developing a targeted Internet marketing solution. Students will be taken through a complete Web development project, from initial concept to completed site. They will be

expected to complete a project of their own choosing, real or imaginary, that encompasses all aspects of the production cycle of a Web project; initial concept, quoting, project planning, process flow, page design, marketing considerations, usability, and quality control. Prerequisite: Successful completion of WEB 101 and 102. Credit: 3 semester hours Lab. 0 Lecture: 3

WEB 233 -Web Programming Using **Client-Side Scripting** IAI: None

1.2 Web Programming Using Client-Side Scripting is designed to educate students in the construction of dynamic Web sites. Students will be expected to build a Web site that includes complex programming logic and control structures as well as a variety of visual effects. Prerequisite: Must have completed WEB 101 and 102 or have equivalent Web development experience, as well as CIS 180, or equivalent introductory programming experience. Credit: 4 semester hours

Lecture: 3

WEB 235 -Web Programming Using Server-Side Scripting IAI: None

Web Programming Using Server-Side Scripting is designed to educate students in the construction of Web pages which require processing on the server. Students will be expected to build a Web site that includes complex programming logic and control structures as well as a variety of data structures.

Prerequisite: Must have completed WEB 101 and 102, or have equivalent Web development experience, as well as CIS 180, or equivalent introductory programming experience. Credit: 4 semester hours

Lecture: 3

WEB 260 -Web and Mail Server Administration

IAI: None

12

12 This course covers installing, configuring, and administering Web servers. Topics covered include site administration, security, tuning and optimization, troubleshooting, administering a site from remote locations, indexing services, tracking user access and logging, replication, SMTP, NNTP, FTP services, and ASP components. If time permits, students will install, configure and administer a mail server, as well as set up e-mail services to be accessed through the Web. Prerequisite: Successful completion of PCT 110 and 112. Credit: 3 semester hours Lecture: 3 Lab: 0

WEB 290 -**Special Topics in Web** Information Technology IAI: None

12 Special Topics in Web Information Technology will cover leading edge topics in the Web information technology arena. These special topics might include new server technologies or new Web development technologies. This course may often be taught by experts from the business world who work with the technology which the course covers. Exact course requirements are based on the nature of the topics under study. The course may be repeated three times. Prerequisite: Will vary depending on course topic. Credit: 1-6 semester hours Lecture: 1-6 Lab: 0

WEB 291 -

Lab: 2

12

Lab: 2

Internship/Field Experience IAI: None 1.2Internship/Field Experience requires students to work part-time in the field of Web Development in a local cooperating business firm or non-for-profit organization. This experience will be supervised by a faculty advisor of the Web program. Consent of the advisor or division director is required. Prerequisite: WEB 101 and 102 required. Completion of WEB 230, 233, and 235 recommended. Credit: 1-6 semester hours Lecture: 0 Lab: 5-30

WELDING

WLD

Division of Technical Programs (815) 921-3010

WLD 150 -

Blueprint Reading for Welders 1.2 IAI: None Blueprint Reading for Welders is designed for welders or those in the welding field, performing such tasks as welding inspection, metal fabrication, set-up, assembly and testing. Prerequisite: None Credit: 3 semester hours Lecture: 3 Lab: 0

WLD 151 -

Fundamentals of Welding Theory 1.2 IAI: None Fundamentals of Welding Theory introduces students to high tech welding. Special emphasis is placed on welding and cutting safety as well as welding terms. Basic blueprint reading, metallurgy, welding codes and symbols are also covered. This course must be taken before or concurrently with WLD 153. Prerequisite: None Credit: 3 semester hours Lab: 0 Lecture: 3

WLD 152 -**Arithmetic for Welders** IAI: None

1.2 Arithmetic for Welders teaches basic mathematic skills and provides practical exercises useful in the welding field. The topics are presented in a step-by-step approach with examples that broaden understanding of whole numbers, common fractions, decimal fractions, measurement, volume, weight, and bending metal, and percentage and the metric system. Prerequisite: None Credit: 3 semester hours Lab. 0 Lecture: 3

WLD 153 -**Arc Welding: Flat**

IAI: None

Arc Welding: Flat covers electric welding on plate in the flat position. Safety rules and equipment usage are emphasized. An introduction to oxygen acetylene cutting is covered. Prerequisite: Credit in or concurrent

enrollment in WLD 151 or consent of instructor Credit: 3 semester hours Lecture: 1 Lab: 4

WLD 154 -Arc Welding: Vertical

IAI: None 12 Arc Welding: Vertical covers electric welding on plate in the vertical position. Safety rules and equipment usage are emphasized. An introduction to oxygen acetylene cutting is covered. Prerequisite: WLD 155 or consent of instructor. Credit: 3 semester hours Lab: 4 Lecture: 1

WLD 155 -**Arc Welding: Horizontal** IAI: None

Arc Welding: Horizontal covers electric welding on plate in the horizontal position. Safety rules and equipment usage will be emphasized. Oxygen acetylene burning will also be covered. Prerequisite: WLD 153 or consent of instructor. Credit: 3 semester hours Lecture: 1 Lab: 4

WID 156 -**Arc Welding: Overhead** IAI: None

Arc Welding: Overhead covers electric welding on plate in the overhead position. Safety rules and equipment usage will be emphasized. Oxygen acetylene cutting will also be covered. Prerequisite: WLD 154 Credit: 3 semester hours Lab: 4 Lecture: 1

WLD 157 -M.I.G. Welding

IAI: None 12 M.I.G. Welding covers M.I.G. (wire) welding in all positions on plate. Safety rules and equipment will be emphasized. Prerequisite: WLD 156 or consent of instructor. Credit: 3 semester hours Lecture: 1 Lab: 4

WLD 158 -T.I.G. Welding

IAI: None T.I.G. Welding covers T.I.G. welding in all positions on plate. Safety rules and equipment will be emphasized. Prerequisite: WLD 156 or consent of

instructor Credit: 3 semester hours Lecture: 1 Lab: 4

WLD 159 -

12

12

1.2

Arc Welding: Bellhole/Pipe IAI: None 1.2 Arc Welding: Bellhole/Pipe covers pipe welding in the Bellhole (5G) position. Safety rules and equipment are emphasized. Pipe cutting with oxygen and acetylene will be included. Prerequisite: WLD 156 or consent of instructor. Credit: 3 semester hours Lab: 4 Lecture: 1

WLD 161 -

Arc Welding: Arkansas/Pipe 12 IAI · None Arc Welding: Arkansas/Pipe covers pipe welding in the Arkansas Bellhole (6G) position. Safety rules and equipment are emphasized. Pipe cutting with oxygen and acetylene will be included. Prerequisite: WLD 156 or consent of instructor. Credit: 3 semester hours Lecture: 1

Lab: 4

1.2

WLD 175 -**Certification Qualification** Preparation

IAI: None

Certification Qualification Preparation is designed to prepare an experienced welder for the certification test in A.W.S. D1.1 on plate, or pipe on mild steel only. A.W.S. standards will be followed. The requirements for maintenance of certification will be discussed. Prerequisite: Consent of the welding coordinator Credit: 3 semester hours Lab: 4 Lecture: 1

WLD 180 -Independent Study in Welding

IAI: None 12 Independent Study in Welding allows students to develop specific course goals and objectives based on their needs and previous welding experience. Students will work with the welding instructor to determine course goals.

Prerequisite: Industrial experience or completion of welding courses in the processes area of study, or consent of instructor. Credit: 1-5 semester hours

Lecture 2 Lab. 6

WLD 181 -

12

Special Topics Welding IAI · None

12 Special Topics Welding is designed to satisfy topics or special interest in a particular area of welding. Topics will vary from semester to semester. This course may be repeated three times.

Prerequisite: Consent of the instructor is required.

Lab: 0

12

Credit: 1-3 semester hours Lecture: 3

WLD 182 -Internship In Welding Technology

IAI: None

Internship in Welding Technology enables students to work part-time as interns in a local manufacturing facility or governmental agency involved in welding/fabrication. Work will be done under the supervision of a college administrator/faculty member. It is the student's responsibility to secure a part-time or full-time job. Prior approval must be obtained from the welding administrator or faculty member. The number of work hours is variable.

Prerequisite: At least 12 credits in Welding Technology Certification program, previously or concurrently. Students may repeat this course up to a maximum of six credit hours. Credit: 1-6 semester hours Lecture: 0 Lab: 5-30

ZOOLOGY

- See Biology





Community Outreach at Rock Valley College offers district residents a variety of informal programs that are cultural and recreational, as well as educational. These programs are an outreach arm of the college and intended for persons of all ages. Programs include Adult Education, Business Outreach, Center for Learning in Retirement, Community Education, Continuing Professional Education, Employment and Grant Programs, Starlight and Studio Theatres, Traffic Safety, Small Business Development Center, Procurement Technical Assistance Center, and the Rock River Valley Entrepreneurship Center.

Adult Education & Literacy

The Adult Education, located at RVC's Stenstrom Center for Career Education, offer a number of programs for adults. Adult Education offers classes to adults in basic reading, writing, and math; G.E.D. preparation in both English and Spanish; and English as a Second Language. The GED to Careers Program offers G.E.D. preparation along with employment skills to out-of-school youth, ages 18 to 21. Customized fee-based classes are available on-site to area companies and organizations.

For more information on Adult Education, call (815) 921-2001.

Business Outreach

Business and Professional Institute -

Through the Business and Professional Institute, Rock Valley College offers training, consulting, and specialized resources that are designed to meet the needs of business and industry. Many of the workshops and conferences are held in the Woodward Technology Center on main campus, a state-of-the art facility designed to provide clients with comfort and the latest technology. The BPI offers on-site training sessions, customized training and programs in the following areas: Truck Driver Training

Management Institute, Manufacturing Technology Technical Training, Satellite Programming and Best Manufacturing Practices Center of Excellence; Call (815) 921-2071 for more information.

Office of Employment and Grants

Rock Valley College, Office of Employment and Grants is located at the Illinois Employment and Training Center at 303 North Main Street. This office offers a variety of grant program services to dislocated workers, public aid recipients, along with the Refugee and Immigrant program in the Rockford and surrounding area. Services vary from program to program but generally assist eligible participants with career testing and counseling, job readiness skills, and job search assistance. Several programs offer training options including on-the job training opportunities. For more information, contact the Office of Employment and Grants at (815) 921-2200.

PTAC

The Illinois Procurement Technical Assistance Center at Rock Valley College, located at the EIGERlab, is part of a nationwide program to provide businesses with the marketing know-how and technical tools they need to obtain and perform successfully on federal, state and local government contracts. The mission includes creating and retaining jobs, fostering competition and lower costs for the government, helping to sustain our industrial base and armed forces readiness. For details, call the PTAC at (815) 921-2091 or go to the website: www.rockvallycollege.edu/ptac

SBDC

The Illinois Small Business Development Center at Rock Valley College, located at the EIGERlab was developed to aid new and established small business. Our SBDC offers counseling for all phases of your business life from start-up to expansion, day-to-day problems and selling of the business when you retire. We can advise you in a wide range of topics like: starting your business, drafting a business plan, marketing ideas, accounting/payroll/tax questions, where to find government assistance, loan sources, human resources and hiring, and on to business expansion and selling the business. For more information, call the SBDC at (815) 921-2081 or go to our website: www.rockvalleycollege.edu/sbdc

RRVEC

The Rock River Valley Entrepreneurship Center, located at the EIGERlab, is an initiative that helps stimulate the local business climate by providing accelerated services to higher growth potential businesses. The center links companies and entrepreneurs who can create jobs with investors and manufacturers, resulting in a win-win relationship. It also serves as the gateway to the Illinois Opportunity Fund. For more information call, (815) 921-2054, or go to our website: www.RRVEC.com

Community Education Outreach

Center for Learning in Retirement, Community Education, Continuing Professional Education, and Traffic Safety are housed within CEO.

Center for Learning in Retirement

The Center for Learning in Retirement is a membership organization open to retired and semi-retired adults who enjoy intellectual stimulation and the opportunity to meet new friends. There are short-term courses, often led by members, covering a wide range of topics. Classes meet only during the day. There are no tests, no grades, no compulsory attendance and no homework. Looking for adventure? There are chartered day trips each month to nature preserves, arboretums, art exhibits, and the theater. Classes are held on the campus of Rock Valley College and various sites off campus. For more information concerning this exciting lifelong learning opportunity, call (815) 921-3931.

Community Education

Community Education offers courses that help you learn a new hobby or skill, enjoy leisure and recreational activities and benefit from personal enrichment courses. Virtually anyone can take these non-credit courses; there are no entrance exams and no diploma requirements. Courses are offered at convenient times and locations. Courses are categorized into several distinctive groups: Art. Communications and Writing, Cooking, Crafts/Hobbies, Dance, Finance, Fitness, Garden and Nature, Health/Wellness History, Home, Image/Etiquette, Language, Music, Pets/Animals, Photography, Psychology, Recreation/Sports and Special Interest. Children's and teen's courses include art, cooking, dance, drama, fitness/wellness, language, sports and special interest. The Whiz Kids program, established in 1980, is a summer enrichment program that provides challenging educational experiences to all children grades K-8. Classes are taught using fun, hands-on learning techniques. Sport Camps for children, grades three through 12, include baseball, basketball and volleyball. The courses listed above are provided in the Community & Continuing Education schedule that is published each semester. For more information, contact the Community Education Outreach office at (815) 921-3900.

Continuing Professional Education

Continuing Professional Education offers non-degree programs for professionals seeking continuing education in their field. CPE certificate courses are available to help individuals in their general professional development, career advancement, and preparation for national and state certification and licensing exams. Designed as short-term, non-degree alternatives, these programs do not require an entrance exam for admission. Courses designated as "credit" are not transferable toward a college degree, but in some cases, may be used as electives toward an A.A. or A.S. degree. A student still in high school (age 16-17) may be admitted to CPE credit courses upon written consent of the chief executive officer (or designee) of the high school district in which the student resides. RVC Skills Certificates are offered in Word, Excel, Access, PowerPoint, Automation Skills Training, Electrical and Electronic Maintenance, Industrial Maintenance and Integrated Systems Technology

NOTE: See the Community and Continuing Education schedule for current offerings. For more information about Continuing Professional Education opportunities at RVC, contact the CPE office at (815) 921-3900 or go to our Web site: www.rockvalleycollege.edu/cpe.

Traffic Safety

The Rock Valley College Traffic Safety program provides driver improvement training for a variety of individual, employer-supported, and court-supervised participants. Supervision program: The College joins regional courts, local governments, and law enforcement agencies to provide an educational option for minor traffic violations. Motorists, who choose class instead of court can keep the violation off their public driving record, avoid higher insurance premiums and learn effective defensive driving techniques. Classes are offered throughout the seven county service region. Employers: Workplace leaders committed to employee and work place safety choose tailored courses. Participation in driver improvement programs can result in increased productivity, fewer accidents and lower insurance premiums. Classes are designed to coordinate with workplace schedules and locations. Personal interest: Individuals attend the program for personal interest and selfdevelopment. For more information, contact the Traffic Safety program office at (815) 921-3940.

Theatre and Arts Park

Starlight Theatre

Since 1967, when Finian's Rainbow was staged on the College lawn, Rock Valley College has brought affordable, outdoor summer musical theatre to residents of the district. Today, performances are in the college's newly remodeled Bengt Sjostrom Theatre, which the Chicago Tribune's Architecture Critic calls "an engineering wonder" which features a one-of-a-kind, articulated, opening 70-foot starshaped roof. Starlight Theatre is one of the nation's largest professionally produced community theatres. Starlight Theatre, the oldest continuously operating theatre in Rockford, offers amateur actors, singers, and dancers an opportunity to work under the direction of professional artistic and technical directors. It attracts hundreds of volunteer performers, crew members and audiences of more than 38,000 each season. Starlight produces big 1930's scale musicals with casts sometimes reaching into the hundreds!

Recent musicals have included Cats, Miss Saigon, State Fair, Beauty & the Beast, Honk!, 42nd Street, Fiddler on the Roof, The King and I, West Side Story, A Chorus Line, Big River, My Fair Lady, Evita, Joseph and The Amazing Technicolor Dreamcoat just to name a few.

Starlight has a distinguished roster of alums which include some of the nation's most gifted performers and technicians including Rockford's New American Theatre founder J. R. Sullivan, Broadway Star and Walt Disney's voice of *The Little Mermaid*, Jodi Mazorrati Benson; Broadway and London's West End Star, Marin Mazzie; Hollywood's How *The Grinch Stole Christmas*, Art Director, Dan Webster; Co-Executive producer of HBO's *Six Feet Under*, Bob Greenblatt; and Broadway Director and Star, Joe Mantello among many others.

Studio Theatre

During the fall and spring semesters, Rock Valley College sponsors a Studio Theatre program, which gives students and area actors the opportunity to perform with guest professionals. Performances are held in the college's Studio Theatre and are chosen for their value as dramatic literature and with an eye toward expanding the range of theatrical offerings in the community. The Studio Theatre is committed to producing the entire Shakespearean Canon of plavs.

Recent productions have included Antony & Cleopatra, All's Well That Ends Well, Titus Andronicus, Timon of Athens, King Henry IV pts. 1 and 2, The Taming of the Shrew, King Lear, Richard III, Macbeth, The Tempest, and Twelfth Night.

During the month of December, the Studio Theatre presents smaller scale musicals done in an incredibly intimate setting. Recent productions have included *The Christmas Schooner, Cabaret, Company, Nunsense 1 and 2, Dames at Sea and They're Playing Our Song.*

The Studio Theatre also has an original works program, which finds talented playwrights and commissions new plays. Recent World Premiere's include *Lent*, the Musical, Pearl's Jam, Crossing Bridges, The Lake, Kite's Book: Tales of an 18th Century Hitman, and Christmas with the Conroys.

April is Murder Mystery Month in the Studio, where we are committed to staging all of the great plays by Agatha Christie. Recent productions include A Murder is Announced, An Appointment with Death, the American Premiere of Cards on the Table, The Mousetrap, Witness for the Prosecution, Ten Little Indians, Murder on the Nile and Murder at the Vicarage.

For more information about theatre at Rock Valley College, call (815) 921-2160.

CONTINUING PROFESSIONAL EDUCATION CREDIT COURSES

The following courses designated as "credit" are not transferable toward a college degree and do not require an entrance exam or tests.

ART/CAREERS

ART 059 -Intro to Interior Design

IAI: None 1.6 Designed for anyone who wants to begin a career in furniture or accessory sales. Basics of lighting, wall and window treatments, carpeting, furniture, and fabrics will be covered. Prerequisite: None Credit: 1 hour

BUSINESS/CAREERS

ATG 001 -

Bookkeeping and Accounting I IAI: None 1.6

Covers the fundamental principles of bookkeeping, including theory of debit and credit, general journal, accounts receivable and payable journals, posting, trial balance, use of worksheets, financial statements, and basic business forms. *Prerequisite: None Credit: 1-2 hours*

ATG 002 -

Bookkeeping and Accounting II IAI: None 1.6

A continuation of ATG 001 that covers accounting procedures and principles for partnership and corporation business. *Prerequisite: Bookkeeping and Accounting I or equivalent experience. Credit: 1.5 hours*

ATG 003 -Bookkeeping and Accounting III

IAI: None 1.6 An advanced course in accounting that will focus on special journals, accounts receivable, depreciation, inventory and revenue and expenses.

Prerequisite: Bookkeeping and Accounting II or equivalent experience. Credit: 1.5 hours

ATG 004 -Payroll Accounting Basics

IAI: None 1.6 Explores the basic concepts of managing payroll accounting. A complete overview of payroll accounting, which includes employee-type identification, salary-wage maintenance and information on employee and employer taxes. Prerequisite: None Credit: 1.5 hours

BUS 007 -How To Own and Operate Your Own Business IAI: None

Provides a complete overview on how to operate a successful business. Topics will include writing a business plan, marketing, planning, legal requirements, financing, recordkeeping and more. *Prerequisite: None Credit: 1-3 hours*

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BUS 053 -Paralegal Jurisprudence IAI: None

IAI: None 1.6 Presents an overview of paralegal profession including many of the more popular entry-level areas of legal specialization. Prerequisite: None Credit: 1 hour

BUS 054 -Paralegal Litigation IAI: None

IAI: None 1.6 Presents an overview of litigation and trial support, including federal and state techniques used by entry level practicing. Prerequisite: None Credit: 1 hour

BUS 055 -Paralegal Management

IAI: None 1.6 Presents an overview of the paralegal office manager who performs a wide variety of duties and the use of office technology equipment. Prerequisite: None Credit: 1 hour

BUS 056 -Paralegal Career

IAI: None 1.6 Presents an overview of paralegal job search/portfolio techniques that will help you match up your legal specialties for a new entry-level position. Prerequisite: None Credit: 1 hour

BUS 080 -Starting Your Small Business IAI: Nome

IAI: None 1.6 Designed to give individuals a step-by-step strategy to starting their own business. Topics included are market strategy, competition, management, financing, etc. *Prerequisite: None Credit: 1 hour*

BUS 095 -

Home Inspection Licensure Course IAI: None 1.6

A comprehensive 80-hour preparation to meet the licensing standards of the Department of Financial and Professional Regulation to acquire Home Inspection Licensure. *Prerequisite: None Credit: 5 credits*

MGT 043 -Supervisory Skills

IAI: None 1.6 For individuals in supervisory positions. Topics include time management, planning, problem-solving skills, delegation and more. Prerequisite: None Credit: 1-2 hours

MGT 045 -Advanced Supervisory Skills

IAI: None 1.6 A course for experienced supervisory personnel and front line managers that will improve the skill sets to more effectively manage a productive employee workforce. Topics include: the art of goal achieving, time management, managing diversity, motivating employees, effective team building, sexual harassment, business law basics, supervising the obstinate employee/workforce. Prerequisite: None Credit: 1 hour

CERTIFIED EMPLOYEE BENEFIT SPECIALIST PROGRAM

IAI: None 1.6 A 10-course curriculum that explores conceptual and technical aspects of employee benefit plans as well as financial, legal and economic issues. The curriculum includes the essential elements of knowledge needed by employee benefits professionals, no matter what their role in the industry. Prerequisite: None

MKT 070 -

Employee Benefit Concepts Credit: 2 hours

MKT 071 -Benefit Plans-Design and Administration Credit: 2 hours

MKT 072 -Retirement Plan Contributions Credit: 2 hours

MKT 073 -Contemporary Legal Environments Credit: 2 hours

MKT 074 -Accounting and Finance Credit: 2 hours

MKT 075 -Asset Management Credit: 2 hours

MKT 076 -Employee Benefit Plans and The Economy Credit: 2 hours

MKT 077 -Human Resources Credit: 2 hours

MKT 079 -Contemporary Benefit Issues Credit: 2 hours

MKT 080 -Retirement Plans Credit: 2 hours

COMPUTERS

RVC Computer Skills Certificates Skills Certificates can be used for employment, advancement or promotions in current positions or just for personal use. Continuing Professional Education computer courses are "bundled" into tracks such as word processing, spreadsheets, database management and presentation skills. Students who wish to obtain the Computer Skills Certificate will validate their knowledge by taking a skills assessment exam. For more information, call Continuing Professional Education at (815) 921-1403.

DPR 003 -Windows Basics

IAI: None 1.6 Provides students with the terminology, concepts and techniques used in running Windows-based software. Recommended: None Credit: 1-2 hours

DPR 005 -Computer Basics Skills

IAI: None 1.6 Provides hands-on experience in the operation and use of computers. Topics include Windows, word processing, database, spreadsheet, communications, and graphics. Recommended: None Credit: 1-2 hours

DPR 019 -Introduction to Personal Computers

IAI: None 1.6 Designed for the new user or individuals with no experience interested in learning computers, providing individuals with the skills and confidence to continue learning. *Recommended: None Credit: .5 hours*

DPR 022 -Crystal Reports IAI: None

IAI: None 1.6 Designed for students who are using Access, Excel or SQL and want an easier and more flexible report writer. Students will learn to modify simple reports and groups, work with formulas, format and export reports and create and customize charts and maps. Recommended: Excel or Access Basics

Credit: 1 hour

DPR 023 -Beginning Word

IAI: None 1.6 Provides information on the most important topics of Microsoft Word. Students will learn how to create, edit and format documents. Recommended: None Credit: .5 hours

DPR 024 -Introduction

Introduction to Excel IAI: None 1.6 Provides information on the most important topics of Microsoft Excel. Students will learn how to build, edit and format worksheets and charts.

Recommended: None Credit: .5 hours

DPR 026 -Intermediate Word PCS:

Designed for students who are familiar with Microsoft Word. Students will learn how to work with sections, columns, format tables, import Excel data, create and modify styles and work with headers and footers. Prerequisite: Intro to Word or equivalent experience. *Recommended: None Credit: .5 hours*

DPR 027 -Intermediate Excel IAI: None

IAI: None 1.6 Designed for students who are familiar with spreadsheets. Students will learn how to work with large spreadsheets, use 3-D formulas, customize Excel's toolbars and menus, apply special cell formatting, and more. Prerequisite: Introduction to Excel or equivalent experience

Recommended: None Credit: .5 hours

DPR 029 -

Introduction to QuickBooks IAI: None

QuickBooks is an easy-to-use complete financial management system for small businesses. This course will introduce students to basic features and an opportunity for hands-on practice. *Recommended: Computer Basics or equivalent experience. Credit: 1-2 hours*

DPR 033 -Beginning Keyboarding

IA: None 1.6 Teaches students the keyboard and basic applications such as centering principles, typing tables, letters, memorandums, reports and business forms using the computer.

Recommended: Computer Basics or equivalent experience. Credit: 1-2 hours

DPR 040

Publisher Workshop

IAI: None 1.6 An advanced Microsoft Publisher course that will use MS Publisher techniques to create newsletters and brochures. Recommended: MS Publisher Credit: .5 hours

DPR 041 -

Adobe Illustrator Fundamentals

IAI: None 1.6 Demonstrates the need for vector-based graphic design and how to use Illustrator's tools to create original vector artwork. File formats and layers will be introduced. Recommended: Computer Basics or equivalent experience. Credit: 1 hour

DPR 042 -

1.6

1.6

Adobe Photoshop Fundamentals IAI: None 1.6

Familiarizes the student with the composition and editing capabilities of Adobe Photoshop. Emphasis will be placed on selection tools, file formats, resolution considerations and layers. Recommended: Computer Basics or equivalent experience. Credit: 1 hour

DPR 045 -

Basic Computer Skills IAI: None

IAI: None 1.6 Designed to help students learn computer terminology and give hands-on experience with basic Windows operation and computer application skills including word processing, database, spreadsheets, keyboarding and Internet software packages. Recommended: None Credit: 1-3 hours

DPR 048 -Introduction To Desktop

Publishing IAI: None 1.6 Instructs students in creating distinctive newsletters, brochures and flyers. Recommended: None Credit: 1-2 hours

DPR 049 -

Computer Publishing Skills IAI: None

IAI: None 1.6 Familiarizes the student with the use of Publisher and Word to combine desktop publishing skills and printing capabilities to create usable designs and formats. Recommended: None Credit: .5 hours

DPR 050 -**Special Topics in Word Graphics**

IAI: None 16 Helps students create computerized scrapbook pages that they can print or e-mail to others. Microsoft Word will be used to create scrapbook pages while applying graphic design skills such as font sizes, styles, WordArt and many other Word features. Recommended: Basic Word skills

DPR 077 -**Internet Essentials**

Credit: 1 hour

IAI: None

Gives students a basic understanding of the Internet and expose them to the vast amounts of information available on the World Wide Web Recommended: Computer Basics or equivalent experience. Credit: .5 hours

DPR 080 -Web Page Design

1.6 IAI: None Helps students learn how to create basic Web pages using HTML. Recommended: Windows Basics, Computer Basics or equivalent experience. Credit: 1-2 hours

DPR 085 -Introduction to Word Processing

1.6 IAI: None A hands-on approach to learning the basic features of word processing software such as creating, editing, formatting text, saving and printing. Recommended: None Credit: 1-2 hours

DPR 086 -Intermediate Word Processing IAI: None

16 Expands the student's knowledge of word processing functions. Recommended: Introduction to Word Processing. Credit: 1-2 hours

DPR 087 -**Beginning Excel for Windows**

16 IAI: None Guides students in developing electronic spreadsheets to analyze data and find solutions Recommended: Computer Basics or equivalent experience. Credit: 1-2 hours

DPR 088 -

Intermediate Excel for Windows IAI: None 16

A continuation of Beginning Excel to enhance skills. Recommended: Beginning Excel or equivalent experience. Credit: 1-2 hours

DPR 089 -**Beginning Access For Windows** IAI: None

1.6 Shows how to easily store, update and retrieve information on this powerful database management system. Recommended: Computer Basics or equivalent experience. Credit: 1-2 hours

DPR 095 -

16

PowerPoint IAI: None Gives hands-on experience in developing dynamic presentations using drawing tools, text graphics and clip art. Recommended: Computer Basics or

equivalent experience. Credit: 1-2 hours

EDUCATION/CAREERS

SOC 012 -**Special Education--An Introduction** IAI. None 16

An introductory course designed for parents, families, teachers, and paraprofessionals who would like to increase their knowledge and understanding of Special Education. Students will learn how to identify various types of Special Educational Impairments, their causes and adaptations and discuss how to be an active participant in the Individual Education Program (IEP) development. Prerequisite: None Credit: 1 hour

SOC 013 -**Special Education - Learning** Disabilities

IAI: None 1.6 An introduction to LD, ADD, and ADHD and autism for parents, teachers, paraprofessionals, administrators and those affected by this disability. Prerequisite: None Credit: .5 hours

SOC 014 -**Special Education - Special Topics** IAI. None 16

Designed for parents, teachers, paraprofessionals, administrators and those who work with special needs persons and want more in-depth knowledge of special education.

Prerequisite: None Credit: 1 hour

FIRE SCIENCE/CAREERS

1.6

FRE 012 – Fire Behavior IAI: None	1.6
FRE 014 – Safety for Fire Fighters IAI: None	1.6
FRE 016 – Portable Fire Extinguishers IAI: None	1.6
FRE 018- Ladders IAI: None	1.6
FRE 020 – Fire Hose and Appliances IAI: None	1.6
FRE 022 Management IV	1.0

IAI: None 1.6Designed for current fire fighters this course focuses on analyzing and organizing personal assignments, developing personnel policies, reviewing and approving capital budgets and fiscal financing etc.for the fire service

Prerequisite: Management III for Fire Fighters Credit: 3 hours

HEALTH/CAREERS

HLT 009 -**Healthcare Provider CPR**

IAI · None 16 Designed for the healthcare provider including nursing and medical students. A two-year certification is awarded through the American Heart Association. Prerequisite: None Credit: .5 hours

HLT 019 -

Environmental Heartsaver CPR IAI: None

1.6 Designed for the healthcare provider to learn First Aid basics, CPR for adults, children and infants; how to operate an automated external defibrillator (AED) and how to prevent many medical emergencies. Prerequisite: None

Credit: .5 hours

HLT 022 -**Reiki for Healthcare Professionals** IAI: None

Healthcare professionals will learn the Japanese system of the ancient art of Tibetan hands-on healing. Reiki is a recognized tool in the healing process. Prerequisite: None Credit: .5 hours

HLT 028, HLT 029, HLT 030 -**Training for Dietary** Managers I, II, III

IAI: None

Consists of three courses, which on completion of the Illinois Food Service Sanitation Certificate, meet the state requirements for dietary managers in healthcare facilities and the Dietary Managers Association (DMA). Students must be working full-time in the food service and/or dietetics department of a healthcare facility and must demonstrate leadership abilities. Prerequisite: None Credit: 3 hours each

HLT 034 -**Reiki for Healthcare Professionals** н

IAI: None 1.6 Healthcare professionals will learn the Japanese system of the ancient art of Tibetan hands-on healing. Reiki is a recognized tool in the healing process. Prerequisite: None

Credit: .5 hours

HLT 038 -**Emergency Medical Technician** IAI: None

16 Designed to train police, fire, first responder and rescue squad personnel and persons interested in the techniques of basic emergency medical care. The curriculum, developed by the U.S. Department of Transportation, will prepare students for the Illinois State and/or National Emergency Medical Technician-Basic certification.

Prerequisite: None Credit: 8 hours

HLT 051 -**Food Service Sanitation for** Certification

IAI: None 1.6 Gives individuals the basic food service sanitation principles and prepares them to take the Food Service Certification Exam given by the Illinois Department of Public Health.

Prerequisite: None Credit: 1.5 hours

HI T 053 **Dental Assisting Program**

Prepares students for entry-level positions for Dental Assisting and familiarizes the student with all areas of pre-clinical dental assisting and provides training in the professional skills required to function as an assistant in the dental practice. Prerequisite: None Credit: 4 hours

HLT 054 Medical Assistant Administration

Prepares students to function effectively in many of the administrative and clerical positions in the health care industry. This program covers important entry-level background information on anatomy and physiology, medical terminology, insurance billing and coding, medical ethics, customer service and legal aspects. Prerequisite: None Credit: 3 hours

HLT 056 -

16

Pharmacy Technician Certification IAI: None

A comprehensive 50-hour course that prepares students to enter the pharmacy field and to take the Pharmacy Technician Certification Board's PTCB exam. Prerequisite: None Credit: 3 hours

HLT 057

Physical Therapy Aide Prepares students for the growing field of Physical Therapy. This program includes the following areas: Intro to Physical Therapy, Anatomical position, Muscle anatomy. Review of musculoskeletal structures, Circulatory system, Respiratory system, Nervous system, Sports Medicine Training. Prereauisite: None

Credit: 3 hours

HLT 058 -Medical Coding/Billing Certification

IAI: None

A combined 50-hour billing and coding course that offers the skills needed to solve insurance billing problems, how to manually file claims (using the CPT and ICD-9 month manual), complete common insurance forms, trace delinquent claims, appeal denied claims and use generic forms to streamline billing procedures. Prerequisite: None Credit: 3 hours

HLT 063 ·

Therapeutic Uses of Aromatherapy IAI: None

Designed to provide healthcare professionals with an overview of the basics of aromatherapy and the safe use of essential oils in nursing homes, healthcare and home environments Prerequisite: None Credit: .5 hours

HLT 064 Aromatherapy for Health Professionals IAI: None

1.6 Covers aromatherapy used as a complement to the healthcare profession including a wide range of topics, from botany through organic chemistry, essential oil knowledge and massage. Prerequisite: None Credit: 1 hour

HLT 065 **Introduction to Chakras**

IAI: None 1.6 Intended to introduce students to the bioelectric "circuitry" called Chakras. Focus will be on preventive medicine for the spirit and enhancing natural healing capabilities of the body. Prerequisite: None Credit: .5 hours

HLT 069

Medical Coding & Billing Program IAI: None 16

This combined 80 hour medical terminology, anatomy & physiology, billing and coding course offers the skills needed to solve insurance billing problems, how to manually file claims (using the CPT and ICD-9 manual), complete common insurance forms, trace delinquent claims, appeal denied claims and use generic forms to streamline billing procedures. Prerequisite: None Credit: 5 hours

HLT 070 Self-Acupressure with

Jin Shin Do[®] -Parts I & II 1.6 IAI: None Learn key neck and shoulder points, plus distal points to help release tension. A single 25-point self-acupressure pattern will be taught including self-care points. Prerequisite: None Credit: .5 hours

NRS 013 -**Wound Care for Healthcare** Professionals

IAI: None

1.6

1.6 A series of four instructional sessions designed to provide the learner with knowledge and skills specific to the prevention, recognition and management of chronic wounds. Topics include wound assessment; treatment for chronic wounds; pressure ulcers and lower extremity ulcers. Taken as the series it provides the learner with a core group of skills. This essential knowledge benefits nurses (RN and LPN) and physical therapists in the outpatient, inpatient clinic or nursing home or home health settings. Prerequisite: None Credit: .5 hours

NRS 032 -

Physical Rehabilitation Skills: CNA IAI: None 16

Gives an understanding of the CNA's role in restorative nursing and physical rehabilitation to prepare the student for the certification exams. (Illinois Department of Public Aid Approved Programs, #1038.) Prerequisite: None Credit: 2 hours

NRS 034 -**Occupational Rehabilitation Skills: CNA**

IAI: None 16 Gives an understanding of the CNA's role in restorative nursing and occupational rehabilitation to prepare the student for the certification exams. (Illinois Department of Public Aid Approved Programs, #1043.) Prerequisite: None Credit: 2 hours

NRS 038 -Advanced Certified Nursing Assistant Skills

IAI: None 1.6 Emphasis is placed on the development of technical skills in the delivery of care to individuals across the lifespan. Minimum credential required to register is proof of current nursing assistant certification. Prerequisite: None Credit: 1-3 hours

NRS 040 -**Basic Electrocardiogram** IAI: None

Designed to prepare the student to perform electrocardiograms. Minimum credential required to register is proof of current nursing assistant certification. Prerequisite: None Credit: 1 hour

NRS 042 -**Phlebotomy Skills**

16 IAI: None Designed to prepare the student in routine phlebotomy procedures. Minimum credential required to register is proof of current nursing assistant certification. Prerequisite: None Credit: 1 hour

NRS 044 -**Basic Respiratory Care** IAI: None

1.6 Designed to prepare the student to perform basic respiratory care procedures. Minimum credential required to register is proof of current nursing assistant certification. Prerequisite: None

Credit: 1-3 hours

HOSPITALITY/CAREERS

HSP 012 -**Restaurant Operations** Management

IAI: None 1.6 Explores the beginning of the restaurant concept and enters into today's world of chain and independent operators. Prerequisite: None Credit: 2 hours

HSP 014 -**Introduction to Food Production** IAI: None 16

An introductory course for food production in a working restaurant atmosphere. The primary focus is on culinary skills which include cooking methods, terminology, knife techniques, stocks and soups. Prerequisite: None Credit: 2 hours

HSP 015 -

Food and Wine Paring IAI: None

Increase your ability to recommend various parings to restaurant customers and increase sales. Prerequisite: None Credit: 1 hour

HSP 016 -

1.6

Introduction to Wine IAI: None

For anyone in the restaurant industry or individuals who want to gain a greater understanding of the transformation of grapes to wine. You'll learn how to taste, how to make smart buys and insider's tips on choosing and recommending good wines. Prerequisite: None Credit: 1 hour

HSP 017 -Wine Appreciation IAI: None

1.6 For anyone in the restaurant industry or individuals who want to continue to gain a greater understanding of various characteristics of wine. Prerequisite: HSP 016 or instructor approval Credit: 1 hour

HSP 018 -Science of Mixology IAI: None

Offers an introduction to the art of bartending as a career including popular recipes; common duties, tools, jargon; product identification; classifications; production and storage; glassware and garnishes; service; hygiene and sanitation; customer relations; laws and accountabilitv.

Prerequisite: None Credit: 2 hours

HSP 020 -Food, Beverage and Restaurant Controls

16 IAI: None Explores the principles of accounting as applicable to restaurants and food and beverage operations. Prerequisite: None Credit: 1.5 hours

HSP 022 -Front of the House Management

IAI: None 16 Explores the beginning of the restaurant concept and enters into today's world of chain and independent operators. Prerequisite: None Credit: 2 hours

LANGUAGE/ COMMUNICATION

COM 012 -**Grant Writing 101**

16

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IAI · None For individuals or small non-profit agencies interested in getting started in grant writing. Topics include: the basics of finding grants, how to identify grants you may be eligible to receive, the steps to writing a grant and do's and don'ts for effective grant writing. Prerequisite: None Credit: 1 hour

COM 024

Spanish for Business Professionals IAI: None

Basic techniques for verbal and written Spanish translations will be introduced. Students will learn common vocabulary skills and phrases used in the business world to translate text from English to Spanish and vice versa.

Prerequisite: Fluent in English and Spanish.

Credit: 1-2 hours

COM 025 -Spanish for Healthcare Professionals

16 IAI: None Designed to assist healthcare professionals in their daily contact with Spanish-speaking clientele. Spanish grammar and structure with emphasis on occupation-specific vocabulary and phrases, all of which will be immediately useful. Prerequisite: None Credit: 1 hour

COM 027 -**Spanish for Food Service** Professionals IAI: None

1.6

Designed for food service personnel in their daily contact with Spanish-speaking clientele. Spanish grammar and structure with emphasis on occupation-specific vocabulary and phrases, all of which will be immediately useful. Prerequisite: None Credit: .5 hour

COM 032 -**Business Communication Skills** IAI: None 16

Helps develop verbal and written communication skills to enable a student's ability to develop interpersonal understanding, solve problems and persuade, motivate, and display leadership qualities. Prerequisite: None Credit: .5-1.5 hours

FOR 024 -**Spanish For Educators I and II** IAI: None

16 Designed to enable educators and school personnel to communicate in Spanish with Spanish-speaking students and their parents. Prerequisite: None

Credit: .5 - 2 hours

FOR 025 -

Spanish For Bankers IAI: None 1.6 Designed to enable customer contact staff in the banking industry to communicate in Spanish with Spanish-speaking customers. Prerequisite: None Credit: 1 hour

FOR 029 -**Spanish For Educators III**

IAI: None 16 Designed as a review of basic Spanish language concepts with emphasis on communication in Spanish between educators and Spanish-speaking students and their parents. Prerequisite: Spanish for Educators I & II. Credit: 1 - 2 hours

MATH/CAREERS

MTH 010 -Math Review

IAI: None

16 Gives students a practical review of basic mathematical principles including fractions, decimals, percents, and application of these basics to practical problems. Prerequisite: None Credit: 1-2 hours

MTH 011 -

Algebra Review IAI · None

Designed for those who have previously taken high school algebra but would like to review before continuing with other mathematics courses. Prerequisite: None Credit: 1-2 hours

TECHNOLOGY

AUT 070 -**Certified Manufacturing Associate** IAI: None

Provides the necessary skills for an individual to enter entry-level employment in a manufacturing environment at an entry level. Upon completion, the student will be prepared for on the job training in a specific area or may choose to enter a certificate or degree program for advancement to a technician level position. Prerequisite: None Credit: 6 hours

BCT 048

Introduction to Autocad 3-D IAI: None

An introduction to the world of 3d modeling with a focus on 3d in Autocad. A broad overview of other 3d programs, as well as a brief introduction into 3d animation will be covered

Prerequisite: Basic to advanced computer skills and a thorough command of autocad, including the pline command. Credit: .1 hour

BCT 085

Building Operator Certification Program

IAI: None 1.6 Certification is competency-based and emphasizes energy-efficient building maintenance practices. Prerequisite: Nina Credit: .3.5 hours

BCT 090 Commercial Construction Blueprint Reading

1.6 IAI: None An all inclusive blueprint interpretation and methodology course. Emphasis is on developing a broad knowledge in reading structural blueprints and specifications used in commercial construction. This course covers wood frame, concrete, masonry, and steel frame structures. Students complete a trade competency exam at the end of each unit. Prerequisite: None Credit: 1-3 hours

MAT 031 -**Master Planning**

IAI: None

16

1.6 Explores the processes used to develop sales and operations plans and identifying and assessing internal and external demand and forecasting requirements. The course focuses on the importance of producing achievable master schedules that are consistent with business policies, objectives, and resource constraints. Prerequisite: None Credit: 1-2 hours

MAT 032 -Strategic Management of Resources

IAI: None 16 Explores the relationship of existing and emerging processes and technologies to manufacturing strategy and supply chainrelated functions. The course addresses three main topics: aligning resources with the strategic plan, configuring and integrating operating processes to support the strategic plan, and implementing change. Prerequisite: None Credit: 1-2 hours

MAT 033 -

16

Detailed Scheduling and Planning IAI: None

Will focus on the various techniques for material and capacity scheduling, detailed descriptions of material requirements planning (MRP), capacity requirements planning (CRP), inventory management practices, and procurement and supplier planning. Prerequisite: None

Credit: 1.5 hours

MAT 035 -**Execution and Control of** Operations

IAI: None 16 Focuses on prioritizing and sequencing work, executing work plans and implementing controls, reporting activity results, providing feedback on performance, techniques for scheduling and controlling production processes, the execution of quality initiatives and continuous improvement plans, and the control and handling of inventories.

Prereauisite: None Credit: 1-2 hours

MAT 036 -

Supply Chain Management IAI: None

1.6 Explores the basic concepts of managing the flow of materials in a supply chain. Elements of the Supply Chain, Just-In-Time (JIT), Total Quality Management (TQM), Manufacturing Resources Planning (MRP II), Demand Planning and Capacity Management are included. Prerequisite: None Credit: 1-2 hours

MAT 038 -**Identifying and Creating Demand**

IAI: None 16 Presents the strategies and tactics that identify, define, and quantify customer wants and needs and demonstrates how to translate requirements into value-added products and services. Prerequisite: None Credit: 1.5 hours

MAT 040 -**Fundamentals of Planning** IAI: None

1.6 An entry-level course for those who wish to continue in the CPIM and CIRM programs. This course introduces participants to the principles of effective planning and presents the concepts of planning at each level, from strategic to tactical. Prerequisite: None Credit: 2 hours

MAT 042 -**Fundamentals of Manufacturing** Control

IAI: None

Explores priority and capacity management through the use of Material Requirements Planning (MRP), Capacity Management, Capacity Requirements Planning (CRP), and Just-in-Time (JIT). This course explores the execution of the production plan and master production schedule, reactions to capacity constraints and maintenance of individual order control.

Prerequisite: None Credit: 2 hours

MAT 044 -**Enterprise Concepts and Fundamentals**

IAI: None 16 Introduces the strategic fundamentals of the value-driven enterprise, the management concepts of organizational design and structure and the basic business processes that will be covered in the CIRM curriculum. Prerequisite: None Credit: 1.5 hours

MAT 046 -**Designing Products and Processes** IAI: None 16

Examines the systems, approaches and strategies used by an enterprise to convert a need or innovation into a product, process or service that meets the expectations of both the enterprise and the customer. The designing products and processes module examines the activities in the design process, which include organizing and defining the design team, determining the resources needed, identifying the work to be done and the anticipated output from the work, doing the actual work and measuring the results. Prerequisite: None Credit: 1.5 hours

MAT 048 -**Delivering Products and Services** IAI: None 16

Expands on the concept of the value-driven enterprise, which was introduced in the Enterprise Concepts and Fundamentals module. Learn how to integrate an enterprise's system, approaches and strategies to make the transition from concept to product and from customer expectation to product delivery. Prerequisite: None Credit: 1.5 hours

MAT 050 -

Integrated Enterprise Management IAI: None 16

Applies strategic thinking to enterprisewide issues, such as integration of individuals within teams, functions and the enterprise and the evolution of an enterprise within its environment and over time. Prerequisite: None Credit: 1.5 hours

MAT 052 -**Fundamentals of Operations** Management

IAI · None

1.6

Explores the design of systems that produce goods and services and the operation of those systems. Prerequisite: None Credit: 2 hours

MAT 054 -

Fundamentals of Inventory Control IAI: None

Introduction to essential vocabulary and skills in identifying and applying the basic principles of inventory management. Basic methods of planning and controlling inventory in manufacturing, institutional, distribution and retail environments are covered.

Prerequisite: None Credit: 2 hours

MAT 056 -**Certified Supply Chain** Professional

16 IAI · None The CSCP program is a new industry educational and certification program that takes a broad view of the supply chain management field. The CSCP examination is available to individuals who have relevant work experience and education. Prerequisite: Bachelor's Degree ore equivalent, plus two years of relative business experience or CPIM, CFPIM, CIRM or CPM designation plus two years of relative business experience or five years of relative business experience. Credit: 1.5 hours

ISH 024 -**OSHA 30-Hour General Industry** 16 IAI: None

Provides students with an understanding of the minimum OSHA requirements. Students will review the requirements of the OSHA 300 log, safety plans and general recordkeeping requirements. OSHA certification cards will be issued upon successful completion. Prerequisite: None

Credit: 2 hours

MEC 009 -**Small Gas Engine Maintenance** and Repair

IAI: None 16 Covers theory, maintenance, and repair of two-and four-cycle small gas engines. Prereauisite: None Credit: 2 hours

MEC 023 -**Electricity in the Home II** IAI. None

16 An advanced course about electrical wiring in the home. The primary focus is about safe electrical wiring techniques, with an emphasis on the National Electrical Code. Prerequisite: None Credit: 2 hours

MEC 030 -

16

Electricity in the Home I IAI: None

1.6 Designed to introduce the homeowner to methods of working with electricity and electrical devices in the home. Students will learn basic electrical theory, electrical safety and common home wiring methods. Prerequisite: None Credit: 2 hours

MEC 045 -

Basic Welding IAI: None

16 Covers the theory of operation, oxyfuel welding (OFW), oxyfuel cutting (OFC) and shielded metal arc welding (SMAW) in the flat position. Prerequisite: None

Credit: 1.5 hours

MEC 046 -

Intermediate Welding IAI: None

1.6A continuation of Basic Welding, with emphasis on improving welding skills with gas and electric welders. Prerequisite: None Credit: 1-2 hours

MEC 051 -

Refrigeration and Air Conditioning IAI: None

Covers the principles of construction. operation, and repair of home and commercial refrigeration and air conditioning units. Emphasis will be placed on operation and maintenance procedures. Prerequisite: None Credit: 1.5 hours

MFC 052 -**Basic Air Conditioning and Refrigeration Electrical Systems** IAI: None

Covers the basic electrical power and control circuits related to domestic refrigeration systems. Emphasis will be placed on electrical theory, circuit interpretation and use of related test equipment. Prerequisite: None Credit: 1 hour

MEC 054 -Advanced Refrigeration and Air Conditioning

IAI: None A continuation of MEC 052. Prerequisite: MEC 052 Credit: 1.5 hours

MEC 061 -

Blueprint Reading IAI: None 1.6 Covers the principles of blueprint interpretation, terminology, and symbols. Prerequisite: None Credit: 1.5 hours

RVC SKILLS CERTIFICATES

The certificate programs offered below are not transferable toward a degree and do not require entrance exams or tests. RVC Skills Certificates are designed for students who want to upgrade their skills in technology and vocational areas. They offer several advantages that include providing employability skills and credibility to prospective employers; employer knowledge of a potential employee's skill level for streamlined placement into selective positions: short-term training options for students who are not pursuing a degree program; or personal accomplishment.

AUTOMATION SKILLS CNC MACHINIST

Non-transfer Certificates #6110, 6116 & 6120

Program overview

Provides entry-level training and develops job-based skills for setup and operation of sophisticated computer numerical control (CNC) machine tools with emphasis on safety, productivity and quality. Each program consists of a series of classes taught by industry professionals.

Work and employment Graduates are prepared to perform tasks in a manufacturing production environment related to CNC machine set-up and operation. Important information:

All courses in this program are for continuing education, certificate credit. A certificate may be acquired after successful completion of five core courses for a minimum or 12.5 credit hours.

Program contact:

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Division of Engineering & Technology, (815) 921-3050.

CNC Machinist/Turning

ocitinouto "	0110	
AUT 005	Blueprint Reading	and
	Measurement (2	2.5) or
AUT 026	Precision Measurer	nent for
	Machinists (on-line)(2.5)
AUT 010	CNC Lathes Setup	
	and Operation	(2.5)
AUT 014	CNC Lathes	
	Programming	(2.5)
Prerequisite: 1	Vone	
Credit: Total=	7.5 hours	

CNC Machinist/Milling Certificate #6120

	0120	
AUT 005	Blueprint Reading	(25) or
1110 000		(2.5) 01
AUT 026	Precision Measure	ement for
	Machinists (on-lir	ne)(2.5)
AUT 012	CNC Mills Setup	
	and Operation	(2.5)
AUT 016	CNC Mills	()
	Programming	(2.5)
Prerequisite: N	Vone	
Credit: Total=	7.5 hours	

Mini-Certificates: CNC Machining Certificate #6116

AUT 010 2.5 AUT 012 2.5 AUT 014 2.5 AUT 016 2.5 AUT 020 2.0 Prerequisite: None Credit: Total=12 hours

AUT 005 -Blueprint Reading and Measurement IAI: None

Blueprint Reading and Measurement introduces the practices and principles of reading industrial blueprints and applied shop math in conjunction with measuring instruments. Instruments include: rules, micrometers, dial calipers, depth micrometers and indicators. Students measure machined parts and apply blueprints to verify quality. *Prerequisite: None Credit: 2.5 hours*

16

AUT 010 -

CNC Lathes - Setup and Operation IAI: None 1.6

CNC Lathe-Setup and Operation develops knowledge and application to setup and operate CNC lathes and turning centers. Topics include: CNC terminology, Cartesian coordinate systems, G and M codes and other word formats and basic setup techniques. Students will learn to do complete setups and first piece part operation. *Prerequisite: None Credit: 2.5 hours*

AUT 012 -

CNC Mills - Setup and Operation IAI: None 1.6

CNC Mills-Setup and Operation develops knowledge and application to setup and operate CNC mills and machining centers. Topics include: CNC terminology, Cartesian coordinate system, G and M codes and other word formats and basic setup techniques. Students will perform a complete setup and first piece part operation. *Prerequisite: None Credit: 1-3 hours*

AUT 014 -CNC Lathe Programming

IAI: None 1.6 CNC Lathe-Programming develops a basic understanding of CNC G and M code programming for lathes and turning centers. Topics include: G and M codes and other word formats, Cartesian coordinate system, and shop math used to calculate angles and radii for machine programming. Students will write a simple turning center program upon completion of course. *Prerequisite: None Credit: 2.5 hours*

AUT 016 -CNC Mill Programming

IAI: None 1.6 CNC Mills-Programming develops a basic understanding of CNC G and M code programming for mills and other word formats, Cartesian coordinate system, and shop math used to calculate angles and radii for machine programming. Students will write a simple machining center program upon completion of course. *Prerequisite: None Credit: 2.5 hours*

AUT 020 -Introduction to Tooling IAI: None

Introduction to Tooling explores the selection and use of various tools for CNC turning and machine centers, Milling tools and topics include: drills, taps, reamers, boring bars, end mills, face mills, tool geometry, tool selection, feeds and speed for machining centers. Turning tools and topics include: tool holders, insert geometry, grades, selection, single point threading tools, groove and cutoff tools, positive and negative rake angles and fee and speed calculations for workplace materials. *Prerequisite: None Credit: 2 hours*

1.6

AUT 026 -Precision Measurement for Machinists

IAI: None 1.6 Designed to teach students how to measure with accuracy using thirty-five instruments including steel rulers, micrometers, dial calipers, CMMs and more. Students may choose inch, metric or both systems of measurement. Prerequisite: None Credit: : 2.5 hours

AUT 027 -Mastering CNC Machine Centers IAI: None 16

Designed to improve existing machinists or develop new set up operations to higher levels of skill. Various models of machines will be simulated including Fanuc, Haas, Okum and Mazak CNC controls. *Prerequisite: None Credit: : 2.5 hours*

AUT 028-Mastering CNC Machine Centers IAI: None 1.6

Designed to identify the brands and models of control including the four most widely used brands, Fanuc, Haas, Mazak and Okuma and the basic operating principles of a CNC lathe. *Prerequisite: None Credit: : 2.5 hours*

16

AUT 060 -Introduction to AutoCAD

Introduction to AutoCAD provides basic knowledge and application of AutoCAD software for computer-aided mechanical design, including commands and techniques necessary to produce a drawing. This course is specifically designed for students of industry or trades with little or no previous CAD experience, intended for students developing AutoCAD skills and not currently pursuing an A.A.S. degree in AMT, BCT or CDT. *Prerequisite: None Credit: 1.5 hours*

AUT 065 -Introduction to CAM for Machinists

IAI: None 1.6 Introduces students to the basics of using a computer aided manufacturing software for the creation of G-code programs. *Prerequisite: None Credit: 2.5 hours*

INDUSTRIAL MAINTENANCE NON-TRANSFER CERTIFICATE #6149

The Industrial Maintenance program has been designed to give *maintenance employees basic* knowledge in a variety of fields. Graduates of this program are prepared for entry-level facility maintenance and/or service technician positions within manufacturing and industrial organizations. A certificate may be acquired after the successful completion of 24 hours of any combination of courses in this program. All courses and certificates in this program are non-transferable toward a degree. Contact the Division of Technical Programs at (815) 921-3003.

MNT 059 -Essentials of Drafting IAI: None

IAI: None 1.6 Introduces blueprint reading and drafting including class exercises in interpreting lines and view positions found on prints, use of drawing tools, simple geometric construction, fundamentals of orthographic construction, English and metric measurement, scale and precision dual dimensioning of drawings. Prerequisite: None Credit: 2 hours

MNT 072 -Flat and Horizontal Welding

IAI: None 1.6 Covers basic welding fundamentals relative to arc and oxy-acetylene welding equipment and procedures. Prerequisite: None Credit: 2.5 hours

MNT 073 -Vertical and Overhead Welding

IAI: None 1.6 Extends the development of arc and oxyacetylene welding skills including oxyacetylene cutting equipment and applications, arc and carbon arc cutting; soldering, brazing, inspection and testing of weldments; metal identification; and welding in vertical and overhead positions. *Prerequisite: None Credit: 1-3 hours*

MNT 075 -Welding - GTAW (TIG)

IAI: None 1.6 Teaches an understanding and acquiring of manipulative skills needed with inert arc welding equipment. Prerequisite: None Credit: 2.5 hours

MNT 076 -

Welding - GMAW (MIG) IAI: None 1.6 Gives an understanding and acquiring of manipulative skills needed with gas metal arc welding. Prerequisite: None Credit: 2.5 hours

MNT 084 -

Air Conditioning IAI: None 1.6 Studies the basic application of air conditioning equipment to business and industry facilities. Prerequisite: None Credit: 1-3 hours

MNT 089 -

Basic Heating and Refrigeration IAI: None 1.6

Studies the application, operation and troubleshooting of heating and refrigeration systems. *Prerequisite: None Credit: 1-4 hours*

MNT 095 -Machine Maintenance and Troubleshooting II

IAI: None 1.6 A continuation of MNT 080. The student will examine various installations of machine components and learn their required maintenance. Prerequisite: MNT 080 Credit: 3.5 hours

INTEGRATED SYSTEMS TECHNOLOGY PROGRAM

The Integrated Systems Technology program has been designed to cross-train individuals in electrical, electronic, hydraulic, pneumatic and mechanical systems. Students completing the program acquire entry-level knowledge necessary to operate, troubleshoot and *maintain equipment/systems* involving a blend of electrical and mechanical components typical to facilities operations, manufacturing support, maintenance and/or industrial service organizations. Certificates of completion are awarded to participants successfully completing courses. Some courses have prerequisite(s). For more information, contact the Division of Technical Programs at (815) 921-3000.

IST 002 -Introduction to Integrated Systems Technology IAI: None

IAI: None 1.6 Introduction to Integrated Systems Technology (IST) provides an overview of the core technologies studied in the IST program. This overview is ideal for individuals requiring minimal technical coverage of electricity, hydraulics, pneumatics and mechanical systems. Emphasis is placed on general working knowledge of principles, rather than detailed technical analysis and calculations. Prerequisite: None

Credit: 2 hours

IST 003 -Introduction to Electrical Control Circuits IAI: Nome 16

IAI: None 1.6 An introductory course focusing on electricity and elementary electrical circuits. Students completing this course will understand the fundamentals of electricity, basic electrical circuits, schematic symbols, Ohm's Law, and series/parallel/combination circuits. *Prerequisite: None Credit: 3 hours*

IST 004 -Electrical Control Circuits II IAI: None

IAI: None 1.6 A continuation of IST 003. Topics of coverage include control transformers, ladder logic, on/off delay timers, three phase AC, motor control and overload protection. Prerequisite: IST 003 or consent of instructor. Credit: 3 hours

IST 005 – Introduction to Electrical Control Panel Wiring IAI: None 16

IAI: None 1.6 Provides a formal discussion about the procedures and processes necessary to wire electrical control panels containing electrical equipment operating at different voltages. Topics studied include panel types, determining number of wires needed, wire color coding, wire termination, wire splicing, and bundling methods. *Prerequisite: IST 004 Credit: 2 hours*

IST 006 -

Introduction to Programming the Allen-Bradley SLC 500 Series Programmable Logic Controller (PLC)

IAI: None 1.6 Familiarizes students with the purpose of PLCs and how they operate. Topics of coverage include interfacing input/output devices, understanding relay ladder logic diagrams, development of programs, and troubleshooting. Prerequisite: IST 004 or consent of instructor.

Credit: 3 hours

IST 007 -

Programmable Logic Controllers II IAI: None 1.6

A continuation of IST 006 that will help students improve their understanding of the operation of the Allen-Bradley SLC 500 PLC by learning more about the instruction set used by these logic controllers. Topics of coverage include latch/unlatch coils, comparison instructions, math instructions, data handling, and program flow.

Prerequisite: IST 006 or consent of instructor. Credit: 3 hours

IST 010 -Pneumatics for the Integrated Systems Technologist

IAI: None 1.6 An introductory course for individuals requiring knowledge of pneumatic components and systems. Topics studied include pneumatic schematics, flow control valves, directional control valves, check valves, speed control, single/double-acting cylinders, air filtration and lubrication. *Prerequisite: None Credit: 3 hours*

IST 012 -Hydraulics for the Integrated Systems Technologist

 IAI: None
 1.6

 An introductory course for individuals
 requiring knowledge of hydraulic components and systems. Topics studied include

 Pascal's Law, hydraulic schematic symbols, flow control valves, directional control valves, single/double-acting cylinders, relief valves, motors and pumps.

 Prerequisite: None

 Credit: 3 hours

IST 020 -Special Topics in Integrated Systems Technology

IAI: None 1.6 Allows the study of advanced topics pertaining to Integrated Systems Technology. The student will submit a topic proposal for review and approval. In the proposal, the student will identify the objectives to be used for outcome assessment. Exact course requirements are based on topics under study. This course can be repeated three times. *Prerequisite: None*

Credit: 1-6 hours

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A Guide to the Rock Valley College Campus



If you're visiting the college for the first time, we'd like to help you get around campus. This map and directory provide basic information about locations on campus. Additional information, including a virtual tour, is available on the college's Web site, www.rockvalleycollege.edu. If you need further assistance while on campus, visit our Information Center located in the Student Center.

Building key:

- 1 Classroom Building I (CL I)
- 2 Classroom Building II (CL II)
- 3 Educational Resources Center (ERC)
- 4 Student Center (SC)
- 5 Physical Education Center (PEC)
- 6 Woodward Technology Center (WTC)
- 7 Arts Instructional Center (proposed) (AIC)
- 8 Bengt Sjostrom Theatre (BST)
- 9 Support Services Building (SSB)
- 10 President's Office (Bldg. E)
- 11 Studio Theatre/Valley Forge (Bldg. F)
- 12 Spring Brook House (SBH)
- 13 Athletic Fields
- 14 Aviation Center (Falcon Rd.)
- 15 Bell School Road Center (Bell)
- 16 Stenstrom Center for Career Education (SCCE)







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