## ADDENDUM TO 2007-2008 CATALOG

(Last Updated December 28, 2007)
This addendum reflects changes to the 2007-2008 Catalog that went into effect after the catalog went to print.
Admissions Requirements changes to the immunization requirements
Associate of Arts NEW Elementary Education Transfer to MSU-Northern Elementary Education
Associate of Arts NEW curriculum
Associates of Science NEW curriculum
Auto Body Repair and Refinishing program changes (NOW Associate of Applied Science)
Aviation program changes
Biology Course Description changes NEW Biology for Rad Tech
Computer Information Technology Network Support program changes
Computer Information Technology Pre or Co-Requisite changes
Computer Server Administration Certificate of Applied Science (NEW program)
Creative Arts Enterprise not teaching any classes Fall 2007
EMT - Intermediate 99 NEW Certificate The Certificate in EMT-Paramedic has been removed. The College still offers the Associate of Applied Science in EMT-Paramedic (refer to page 62 in the 2007-2008 Catalog). The College now offers a Certificate of Applied Science in EMT-Intermediate 99.
Experiential Learning NEW Policy affects Challenge policy on page 6 of the 2007-2008 Catalog
Health Information Technology Course Description changes
Medical Billing Specialist correcting course errors
Medical Billing and Coding Specialist Associate of Applied Science (NEW program)
Network Infrastructure Certificate of Applied Science replacing NETWORK TECHNOLOGY on page 45 in the 2007-2008 catalog

## Office Support Program Correcting Course Errors

Office Technology Course Description changes new course descriptions and changes to previous descriptions
Office Technology Program Changes new name and correcting course errors
NEW Professional Certifications for page 15-16 in 2007-2008 catalog
No longer offering the Professional Certifications on page 15-16 in 2007-2008 catalog
Physical Therapist Assistant Accreditation Status achieved
Practical Nurse program changes (NOW Associate of Applied Science)
Radiologic Technology 2007-2008 program changes (NEW Biology course and prerequisite changes)
Radiologic Technology Associate of Applied Science Degree (NEW Curriculum for 2008-2009 Catalog)
Radiologic Technology Course Description changes
Residency Requirements WUE Information

Surgical Technology program changes (NOW Associate of Applied Science)

## Surgical Technology Course Description changes

Transfer from Other Institutions additional information regarding appeals

## ADMISSION REQUIREMENTS FOR DEGREE SEEKING STUDENTS

Changes the Admissions Requirements found on page 4 of the 2007-2008 Catalog
(Effective Fall 2007)
3. Furnish Immunization Records: In order to be in compliance with Administrative Rules of Montana, updated June 2007, students born after January 1, 1957, taking seven (7) or more credits OR enrolled in a certificate/degree/transfer program must:
Submit proof of TWO vaccinations against measles (rubeola) AND TWO against rubella (German measles). Immunizations must have been after 12 months of age, the second no earlier than 28 days after administration of the first dose. No measles vaccination given before 1967 is valid and no rubella vaccination given before 1969 is valid.
Immunizations must be documented by a physician, registered nurse, or school official; or
Submit blood draw (titer test) results proving immunity for BOTH measles and rubella ; or
Submit documentation of having contracted measles and rubella. Documentation by a physician is required including dates of illness; or

File a medical or religious exemption; or
Show proof of age, if born prior to January $1^{\text {st }}, 1957$.
Such evidence must be submitted before students will be permitted to register for courses.

For more information about the Administrative Rules of Montana regarding immunizations, visit the links below:
http://arm.sos.mt.gov/37/37-28974.htm
http://arm.sos.mt.gov/37/37-28977.htm
http://arm.sos.mt.gov/37/37-28976.htm

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## ASSOCIATE OF ARTS DEGREE WITH ELEMENTARY EDUCATION TRANSFER TO MSU-NORTHERN - ELEMENTARY EDUCATION

The Associate of Arts in Elementary Education Concentration is designed for students interested in a baccalaureate degree in Elementary Education at Montana State University-Northern. A final cumulative grade point average of at least 2.5 is required. Students must provide proof of a current 1st Aid/CPR card prior to entering their junior year at MSU-Northern.

NOTE: Courses taken to fulfill one specific requirement, including courses in the Concentration or Elective blocks, may not be used to fulfill another specific requirement; thus, a course taken to fulfill the Cultural Diversity requirement in the Montana University System Core may not be used as an Elective.

## I. MUS Core - $\mathbf{3 1}$ semester hours

| COMMUNICATION--6 CREDITS |  |  |  |
| :--- | :--- | :--- | ---: |
| Course | No. | Title | Credits |
| ENGL | $121^{* *}$ | Composition I | 3 |
| COMM | 135 | Interpersonal Communication | 3 |
|  |  |  |  |
| MATHEMATICs--3 CREDITs | Credits |  |  |
| Course | No. | Title | 4 |
| MATH | $130^{* *}$ | Precalculus Algebra | 3 |
| MATH | $131^{* *}$ | Precalculus Trigonometry | 3 |
| MATH | $161^{* *}$ | College Algebra w/ Science App | 3 |
| MATH | $181^{* *}$ | Calculus I | 4 |
|  |  |  |  |
| HUMANITIEs/FINE ARTs--6 CREDITs |  |  |  |
| Course | No. | Title |  |
| ENGL | 114 | Intro to Literature | 3 |
|  |  | AND 1 of the following | 3 |
| ART | 101 | Intro to Visual Arts | 3 |
| ART | 114 | Art Fundamentals | 3 |
| ART | 140 | Drawing I | 3 |
| DE | 161 | Introduction to Design | 3 |
| ENGL | $210^{*}$ | World Literature I | 3 |
| ENGL | $211^{*}$ | World Literature II | 3 |
| ENGL | 217 | Creative Writing | 3 |
| HUM | 242 | Gender \& Equality | 3 |
| MUS | 102 | Fundamentals of Music | 3 |
| MUS | 210 | Music Appreciation | 3 |
| MUS | 212 | American Music | 3 |
| MUS | 214 | World Music | 3 |
| PHIL | 101 | Introduction to Philosophy | 3 |
| PHIL | 232 | Basic Ethics | 3 |
| THEA | 101 | Intro to Theater/Performing Arts | 3 |
|  |  |  | 3 |

## Natural Science--7 Credits

| (Must include 1 lab course) |  |  |  |
| :--- | :--- | :--- | ---: |
| Course | No. | Title | Credits |
| BIO | 103 | Introduction to Biology/Lab | 4 |
| PHYS | 130 | Fund Physical Science Lab | 4 |


| Social Sciences/ | History | --6 CREdits |  |
| :--- | :--- | :--- | ---: |
| Course | No. | Title | Credits |
| HIST | 210 N | Montana History | 3 |
| PSY | 109 | Lifespan Development | 3 |

## APPROVED SEPTEMBER, 2007

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+ A grade of "C-"or above required for graduation
* Indicates prerequisites needed
** Placement in course(s) is determined by admissions assessment

| $l$ | $l$ |  |  |
| :--- | :--- | :--- | ---: |
| Cultural Diversity--3 CREDITS |  |  |  |
| Course | No. | Title | Credits |
| NAS | 201 N | Montana's American Indians | 3 |
| NAS | 215 N | Native American Religious Trad | 3 |

## Cultural Heritage of American Indians--3 Credits

Courses with an " N " behind the course title will fulfill the Cultural Heritage of American Indians requirement as well as a designated core area requirement.

## II. Computer Skills/Usage - 3 credits

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| CIT | 110 | Introduction to Computers | 3 |
| CIT | 111 | Intro to Computers for Tech Majors | 3 |
| *or any CIT | 3 | credit |  |


| III. Articulation Coursework - $\mathbf{2 1}$ |  |  | CREDITS |
| :--- | :--- | :--- | ---: |
| Course | No. | Title | Credits |
| EDUC | 201 | Intro to the Education Experience | 3 |
| MATH | 120 | Math for Elementary Teachers | 3 |
| ENGL | 122 | Composition II | 3 |
| HHD | 106 | Drug \& Health Issues for Education | 3 |
| EDUC | 240 | Instructional Technology | 3 |
| EDPY | 220 | Educational Psychology | 3 |
| POLS | 206 | U.S. Government | 3 |

## IV. Electives - 5 Credits

Students may choose coursework numbered 100 or above from any discipline area to complete the required credits of electives. Students may not choose or may not count the following courses: MATH 100, MATH 103, MATH 104, MATH 108, ENGL 118, ENGL 119

No MORe than 5 CREDITS OF COURSES NUMBERED 116 MAY be APPLIED TOWARD the Degree.

## Total Program Credits - 60

~Many students need preliminary math and English courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and English placement before planning out their full program schedule.
**Placement in course(s) is determined by admissions assessment
The Biology 107 requirement for this program has been replaced by Biology 103 Introduction to Biology/Lab

## ASSOCIATE OF ARTS DEGREE

The Associate of Arts (AA) focuses on education across academic disciplines. Focusing on integration of information while increasing a student's employability, the AA focuses on transferability to a baccalaureate program.

To receive the AA degree, the following requirements must be completed:

- Montana University System Core Requirements (31 semester hours);
- Computer Skills/Usage requirement (3 semester hours);
- 9 credits of coursework in the arts, humanities and social sciences;
- 17 credits of Electives; and
- A final cumulative grade point average of at least 2.0.

Courses taken to fulfill one specific requirement, including courses in the Concentration or Elective blocks, may not be used to fulfill another specific requirement; thus, a course taken to fulfill the Cultural Diversity requirement in the Montana University System Core may not be used as an Elective.

## Outcomes: Graduates are prepared to:

- Demonstrate the outcomes achievable by completing the Montana University System Core
- Select and use the appropriate technologies for personal, academic or career tasks;
- Think critically about theories and applications from multiple disciplines when evaluating information, solving problems, and making decisions.


## I. Montana University System Core - 31 semester HOURS

## Communication--6 credits

## (Need 3 writing \& 3 verbal credits)

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| ENGL | $121^{* *}$ | Composition I | 3 |
|  |  | AND 1 of the following |  |
| COLS | 101 | First Year Seminar | 3 |
| COMM | 130 | Public Speaking | 3 |
| COMM | 135 | Interpersonal Communication | 3 |

## MATHEMATICS--3 CREDITS

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| MATH | $130^{* *}$ | Precalculus Algebra | 4 |
| MATH | $131^{* *}$ | Precalculus Trigonometry | 3 |
| MATH | $150^{* *}$ | Math for Liberal Arts | 3 |
| MATH | $161^{* *}$ | College Algebra w/ Science App | 3 |
| MATH | $181^{* *}$ | Calculus I | 4 |
| MATH | $216^{* *}$ | Basic Statistics | 4 |

## Humanities/Fine Arts--6 credits

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| ART | 101 | Intro to Visual Arts | 3 |
| ART | 114 | Art Fundamentals | 3 |
| ART | 140 | Drawing I | 3 |
| DE | 161 | Introduction to Design | 3 |
| ENGL | 114 | Intro to Literature | 3 |
| ENGL | $210^{*}$ | World Literature I | 3 |
| ENGL | $211^{*}$ | World Literature II | 3 |
| ENGL | 217 | Creative Writing | 3 |
| HUM | 242 | Gender \& Equality | 3 |
| MUS | 102 | Fundamentals of Music | 3 |
| MUS | 210 | Music Appreciation | 3 |
| MUS | 212 | American Music | 3 |
| MUS | 214 | World Music | 3 |
| PHIL | 101 | Introduction to Philosophy | 3 |
| PHIL | 232 | Basic Ethics | 3 |
| THEA | 101 | Intro to Theater/Performing Arts | 3 |

## Natural Science--7 credits

(Must include 1 lab course)

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| BIO | 103 | Introduction to Biology/Lab | 4 |
| BIO | 107 | Fund of Human Biology/Lab | 4 |
| BIO | 205 | Personal Nutrition | 3 |
| CHM | $111^{*}$ | Inorganic Chemistry/Lab | 4 |


| CHM | $131^{*}$ | General Chemistry I | 4 |
| :--- | :--- | :--- | :--- |
| CHM | $132^{*}$ | General Chemistry II | 4 |
| GEOL | 101 | Introduction to Geology | 4 |
| PHYS | 110 | Survey of Natural Sciences | 4 |
| PHYS | 130 | Fund Physical Science Lab | 4 |

## Social Sciences/ History --6 credits

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| ECON | 102 | Economics I (Macro) | 3 |
| ECON | 201 | Economics II (Micro) | 3 |
| HIST | $103 N$ | U.S. History I | 3 |
| HIST | 104 N | U.S. History II | 3 |
| HIST | 106 | History of Western Civ I | 3 |
| HIST | 107 | History of Western Civ II | 3 |
| HIST | 210 N | Montana History | 3 |
| PSY | 101 | General Psychology | 3 |
| PSY | 109 | Lifespan Development | 3 |
| SOC | 111 | Introduction to Sociology | 3 |
| SOC | 115 | Survey of Criminal Justice | 3 |
| POLS | 206 | U.S. Government | 3 |

## Cultural Diversity--3 credits

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| ANT | 101 | Intro to Anthropology | 3 |
| BUS | 249 | Global Marketing | 3 |
| ENGL | 214 N | Literature of the West | 3 |
| HUM | 244 | American Cultural Values | 3 |
| ML | 121 | Intro to American Sign Lang | 3 |
| NAS | 201 N | Montana's American Indians | 3 |
| NAS | 215 N | Native American Religious Trad | 3 |

## Cultural Heritage of American Indians--3 credits

Courses with an " N " behind the course title will fulfill the Cultural Heritage of American Indians requirement as well as a designated core area requirement.

## II. Computer Skills/Usage - 3 credits

$\left.\begin{array}{lllr}\text { Course } & \text { No. } & \text { Title } & \text { Credits } \\ \hline \text { CIT } & 110 & \text { Introduction to Computers } & 3 \\ \text { CIT } & 111 & \text { Intro to Computers for Tech Majors } & 3 \\ \text { *or any CIT } & 3 & \text { credit hour course that has CIT } & 110\end{array}\right)$ as a prerequisite

## No more than 5 Credits of courses numbered 116 may be applied toward the

 Degree.
## III. Concentration in Arts, Humanities, and Social

 SCIENCES - 9 CREDITSStudents may choose coursework numbered 100 or above from any of the following discipline areas to complete the required 9 credits of coursework in arts, humanities, and social sciences.
(ART) Art, (ANTH) Anthropology, (COMM) Communication, (ECON) Economics, (EDPY) Educational Psychology, (ENGL) English (except ENGL 118 or ENGL 119), (HIST) History, (HUM) Humanities, (MUS) Music, (ML) Modern Languages, (NAS) Native American Studies, (POLS) Political Science, (PHIL) Philosophy, (PSY) Psychology, (SOC) Sociology

## IV. Electives - 17 credits

Students may choose coursework numbered 100 or above from any discipline area to complete the required 17 credits of electives. Students may not choose or may not count the following courses:

## MATH 100, MATH 103, MATH 104, MATH 108, ENGL 118, ENGL 119

## Total Program Credits - 60

~Many students need preliminary math and English courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and English placement before planning out their full program schedule

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+ A grade of "C-"or above required for graduation
* Indicates prerequisites needed
** Placement in course(s) is determined by admissions assessment


## ASSOCIATE OF SCIENCE DEGREE

The Associate of Science (AS) Degree focuses on education in specific knowledge areas, most typically in math and natural sciences. Focusing on integration of information while increasing a student's employability, the AS focuses on transferability to a baccalaureate program.

To receive the AS degree, the following requirements must be completed:

- Montana University System Core Requirements (31 semester hours);
- Computer Skills/Usage requirement (3 semester hours);
- 9 credits of coursework in Math and Science
- 17 credits of Electives; and
- A final cumulative grade point average of at least 2.0.

Courses taken to fulfill one specific requirement, including courses in the Elective block, may not be used to fulfill another specific requirement; thus, a course taken to fulfill the Natural Science requirement in the Montana University System Core may not be used as an Elective.

Students who complete the Associate of Science degree will:

- Demonstrate the outcomes achievable by completing the Montana University System Core;
- Select and use the appropriate technologies for personal, academic or career tasks;
- Think critically in evaluating information, solving problems and decisionmaking;
- Consider the application of the natural and physical sciences and mathematics in the context of today's world.


## I. Montana University System Core - $\mathbf{3 1}$ semester hours

## Communication--6 credits

(Need 3 writing \& 3 verbal credits)

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| ENGL | $121^{* *}$ | Composition I | 3 |
|  |  | AND 1 of the following | 3 |
| COLS | 101 | First Year Seminar | 3 |
| COMM | 130 | Public Speaking | 3 |
| COMM | 135 | Interpersonal Communication | 3 |

## MATHEMATICS--3 CREDITS

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| MATH | $130^{* *}$ | Precalculus Algebra | 4 |
| MATH | $131^{* *}$ | Precalculus Trigonometry | 3 |
| MATH | $150^{* *}$ | Math for Liberal Arts | 3 |
| MATH | $161^{* *}$ | College Algebra w/ Science App | 3 |
| MATH | $181^{* *}$ | Calculus I | 4 |
| MATH | $216^{* *}$ | Basic Statistics | 4 |

## Humanities/Fine Arts--6 credits

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| ART | 101 | Intro to Visual Arts | 3 |
| ART | 114 | Art Fundamentals | 3 |
| ART | 140 | Drawing I | 3 |
| DE | 161 | Introduction to Design | 3 |
| ENGL | 114 | Intro to Literature | 3 |
| ENGL | $210^{*}$ | World Literature I | 3 |
| ENGL | $211^{*}$ | World Literature II | 3 |
| ENGL | 217 | Creative Writing | 3 |
| HUM | 242 | Gender \& Equality | 3 |
| MUS | 102 | Fundamentals of Music | 3 |
| MUS | 210 | Music Appreciation | 3 |
| MUS | 212 | American Music | 3 |
| MUS | 214 | World Music | 3 |
| PHIL | 101 | Introduction to Philosophy | 3 |
| PHIL | 232 | Basic Ethics | 3 |
| THEA | 101 | Intro to Theater/Performing Arts | 3 |

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## Natural Science--7 Credits

(Must include 1 lab course)

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| BIO | 103 | Introduction to Biology/Lab | 4 |
| BIO | 107 | Fund of Human Biology/Lab | 4 |
| BIO | 205 | Personal Nutrition | 3 |
| CHM | $111^{*}$ | Inorganic Chemistry/Lab | 4 |
| CHM | $131^{*}$ | General Chemistry I | 4 |
| CHM | $132^{*}$ | General Chemistry II | 4 |
| GEOL | 101 | Introduction to Geology | 4 |
| PHYS | 110 | Survey of Natural Sciences | 4 |
| PHYS | 130 | Fund Physical Science Lab | 4 |


| Course | No. | Title | Credits |
| :---: | :---: | :---: | :---: |
| ECON | 102 | Economics I (Macro) | 3 |
| ECON | 201 | Economics II (Micro) | 3 |
| HIST | 103 N | U.S. History I | 3 |
| HIST | 104N | U.S. History II | 3 |
| HIST | 106 | History of Western Civ I | 3 |
| HIST | 107 | History of Western Civ II | 3 |
| HIST | 210 N | Montana History | 3 |
| PSY | 101 | General Psychology | 3 |
| PSY | 109 | Lifespan Development | 3 |
| SOC | 111 | Introduction to Sociology | 3 |
| SOC | 115 | Survey of Criminal Justice | 3 |
| POLS | 206 | U.S. Government | 3 |

## CULTURAL DIVERSITY--3 CREDITS

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| ANT | 101 | Intro to Anthropology | 3 |
| BUS | 249 | Global Marketing | 3 |
| ENGL | 214 N | Literature of the West | 3 |
| HUM | 244 | American Cultural Values | 3 |
| ML | 121 | Intro to American Sign Lang | 3 |
| NAS | 201 N | Montana's American Indians | 3 |
| NAS | 215 N | Native American Religious Trad | 3 |

## Cultural Heritage of American Indians--3 credits

Courses with an " N " behind the course title will fulfill the Cultural Heritage of American Indians requirement as well as a designated core area requirement.

## II. Computer Skills/Usage-3 credits

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| CIT | 110 | Introduction to Computers | 3 |
| CIT | 111 | Intro to Computers for Tech Majors | 3 |
| *or any CIT | 3 | credit hour course that has CIT | 110 as a prerequisite |

## No MORE THAN 5 CREDITS OF COURSES NUMBERED 116 MAY BE APPLIED TOWARD THE Degree.

## III. Concentration in Math and Science - 9 credits

Students may choose coursework numbered 100 or above from any of the following discipline areas to complete the required 9 credits of electives.
(BIO) Biology, (CHM) Chemistry, (GEOL) Geology, MATH** (except 100, 103 104, or 108), (PHYS) Physical Science

## IV. Electives - 17 credits

Students may choose coursework numbered 100 or above from any discipline area to complete the required 17 credits of electives. Students may not choose or may not count the following courses:

## MATH 100, MATH 103, MATH 104, MATH 108, ENGL 118, ENGL 119

## Total Program Credits - 60

~Many students need preliminary math and English courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and English placement before planning out their full program schedule.

+ A grade of "C-"or above required for graduation
* Indicates prerequisites needed
** Placement in course(s) is determined by admissions assessment


## AUTO BODY REPAIR AND REFINISHING

Associate of Applied Science Degree

## Replacing Certificate on page 39 of 2007-2008 CATALOG <br> APPROVEd by BOR MAY 2007 - MAJOR CURRICULAR CHANGES

## Advisor: JASON HARDING

Auto Body Repair and Refinishing offers both variety and challenge. Each damaged vehicle presents a different problem. Repairers must develop appropriate methods for each job using their broad knowledge of automotive construction and repair techniques.

The Auto Body Repair and Refinishing program offers training to students who seek marketable skills in auto body repair, painting, welding, and auto body shop management. Electives are combined with regular course work enabling students to develop business skills.

Auto Body students are required to provide their own hand tools, safety glasses and protective clothing. A complete list of the required tools and equipment is available from Auto Body instructors.

The Auto Body course of study will prepare a student to:

- Identify and demonstrate safety practices and procedures;
- Use hand, pneumatic and power tools;
- Remove, align and install bolt-on components;
- Prepare and use fill materials;
- Perform techniques of welding;
- Prepare a vehicle spot or complete refinishing;
- Formulate spray with numerous paint products;
- Write a collision estimate;
- Use technology and computer skills as they apply to work;
- Communicate well in the workplace.

The Auto Body program receives input from industry experts when developing, modifying or changing courses in the program.

## Fall Semester 1

| Course No. | Title | Credits |
| :--- | :--- | :---: |
| MATH 100 | Math for Trades Programs | 3 |
| TB 112 | Auto \& Paint Shop Safety | 1 |
| TB 130 | Basic Auto Construction | 2 |
| TB 134 | Correcting Sheet Metal | 3 |
| TB 141 | Surface Prep and Undercoats | 3 |
| TB 142 | Top Coat Applications | 3 |
|  |  | Subtotal 15 |

## Spring Semester 1

| Course No. | Title | Credits |
| :--- | :--- | :---: |
| CIT 110 | Introduction to Computers | 3 |
| TB 136* | Correcting Collision Damage | 5 |
| TB 150* | Paint Removal | 3 |
| TB 153* | Overall Refinishing | 3 |
| TB 154* | Paint Problems | 1 |

Fall Semester 2
Course No. Title Credits

COMM 135 Interpersonal Communication 3
TB 220* Fiberglass \& Plastic Repair 3
TB 243* Panel Replacement 3

TB 248* Spot Repair and Blending 3
TB 249* Paint Formulation \& Tinting 3
Subtotal 15
Spring Semester 2
Course No. Title Credits
ENGL 119** or higher 3
TB 245* Production Body Repair 3
TB 246* Total Body Reb \& Sec 3
TB 250* Production Refinishing 3
TB 254* Specialty Finishes 1
TB 255* Estimating Collision Damage 3
Subtotal 16

Total Program Credits - 61
~Many students need preliminary math and English courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and English placement before planning out their full program schedule.

[^0]
## AVIATION

## Associate of Applied Science

## Advisor: Ryan Haskins

## Note: Program offered ONLY at the College of Technology in Bozeman

Students completing the AAS in Aviation will have all credentials required to pursue a career as a professional pilot. The program offers in-depth training in all stages of pilot certification: Private Pilot, Instrument Rating, and Commercial Pilot. The program also offers classroom training in Aircraft Systems, Advanced Navigation Systems, Aviation Safety, Flight Instructor/ Aircraft Theory, and Aviation Regulations and Professional Conduct.

## Outcomes: Graduates are prepared to

- Earn a Private Pilot Certificate:
- Students will complete the Private Pilot FAA knowledge exam
- Students will complete the Private Pilot FAA practical test
- Demonstrate proficiency in both oral and written communication
- Demonstrate proficiency in math computation, and will also be proficient in general science.
- Apply all aspects of aviation safety.
- In addition to the competencies gained by obtaining a Private Pilot Certificate, graduate will earn the FAA instrument Rating preparing them in the following
- Students will complete the FAA Instrument knowledge exam
- Students will complete the FAA instrument practical test
- In addition to the competencies gained by obtaining a Private Pilot certificate and FAA instrument certificate, graduates will earn a Commercial Pilot Certificate preparing them in the following:
- Students will complete the FAA Commercial knowledge exam
- Students will complete the FAA Commercial Pilot practical test
- In addition to the competencies gained by obtaining a Private Pilot certificate, FAA Instrument certificate, FAA Commercial Certificate, graduates will earn a Certified Flight Instructor certificate preparing them in the following:
- Students will complete the FAA Fundamentals of Instruction knowledge exam.
- Students will complete the FAA Certified Flight Instructor knowledge exam.
- Students will complete the FAA Certified Flight Instructor practical test.

Job opportunities range from high-profile occupations as pilots for national carriers to less well-known, but in-demand work as pilots for cargo services, air taxis, media aircraft, corporate jets, or spacecraft. Students who combine the AAS with a Bachelor's degree in a related field will be especially competitive in the entry level job market.

Completion of the AAS in Aviation requires that students contract with a flight school recommended by the Aviation MSUGF Advisory Council to complete the flight training leading to their Private pilot, Commercial pilot, and Instrument licenses. Upon submission of these certificates the student will receive credit for the following courses.

AST 142-Private Pilot (50 flight hours) 2 credits
AST 242-Commercial/Instrument I ( 75 flight hours) 2 credits
AST 252-Commercial/Instrument II (125 flight hours) 2 credits

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[^1]Students may enter the program having already completed flight training. If they have not completed flight training, the sequencing of courses in this outline is highly recommended

| Estimated Program Cost: |  |
| :--- | ---: |
| Tuition and Fees | $\$ 5964$ |
| Application Fee | 30 |
| Flight School | 36574 |
| Books/Supplies | $\underline{1500}$ |
|  | $\$ 44068$ |


| Course | No. | Title | Credits |
| :---: | :---: | :---: | :---: |
| AST | 141 | Aviation Fundamentals | $3 \dagger$ |
| AST | 142 | Private Pilot Flight ( 50 flight hrs) | $2 \dagger$ |
| AST | 143 | Basic Air Navigation | $3 \dagger$ |
| CIT | 110 | Intro to Computers | $3 \dagger$ |
| MATH | 150** | Math for Liberal Arts OR |  |
| any math course |  | in the MUS General Ed Core | 3才 |
|  |  | Subtotal | 14 |
| Spring Semester |  |  |  |
| Course | No. | Title | Credits |
| AST | 171* | Aircraft Systems | $3 \dagger$ |
| AST | 241* | Advanced Navigation Systems | $3 \dagger$ |
| AST | 242 | Commercial/Instrument Flight I (75 Flight Hours) | $2 \dagger$ |
| AST | 243* | Instrument/Commercial Theory I | $3 \dagger$ |
| AST | 250* | Aviation Operations | $3 \dagger$ |
| CIT | 120* | Internet Essentials | $\underline{2 \dagger}$ |
|  |  | Subtotal | 16 |
| Fall Semester |  |  |  |
| Course | No. | Title | Credits |
| AST | 245* | Instrument/Commercial Theory II | $3 \dagger$ |
| AST | 252* | Commercial/Instrument Flight II (125 flight hours) | $2 \dagger$ |
| AST | 261 | Aviation Safety | $3 \dagger$ |
| COMM | 135 | Interpersonal Communication | $3+$ |
| PHYS | 130 | Fundamentals of Physical Science | $\underline{4 \dagger}$ |
|  |  | Subtotal | 15 |
| Spring Semester |  |  |  |
| Course | No. | Title | Credits |
| AST | 260* | Flight Instructor Theory | $3 \dagger$ |
| AST | 262* | Advanced Aircraft Theory | $3 \dagger$ |
| AST | 263* | Aviation Regulations and |  |
|  |  | Professional Conduct | $3 \dagger$ |
| AST | 281* | Certified Flight Instructor | $1 \dagger$ |
| PHYS | 110 | Survey of Natural Science | $4 \dagger$ |
| ENGL | 121** | Composition I | 3才 |
|  |  | Subtotal | 17 |

Total Program Credits - 62~
~Many students need preliminary math and English courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and English placement before planning out their full program schedule.

> | This program articulates with a Bachelor of Science degree in Aviation at |
| :--- |
| Rocky Mountain College in Billings, MT. For details contact Ryan Haskins, |
| Program Director for Aviation Technology, 406-994-6151, |
| rhaskins@msugf.edu, or Dan Hargrove, Director of Aviation at Rocky |
| Mountain College, 406-657-1060, aviation@rocky.edu |

## Changes to Aviation AAS

- CIT 120 Internet Essentials Removed from program Approved by ASCC July, 2007

This course is an integrated study of the human body in which the detailed anatomy of the skeletal, respiratory, circulatory, digestive, nervous, urinary, and reproductive systems is covered. This course is designed to provide students with the fundamentals of human anatomy necessary for successful completion of the Radiologic Technology program at MSU-COT by providing an interactive, hands-on learning environment.

## Approved by ASCC October, 2007

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## COMPUTER INFORMATION TECHNOLOGY NETWORK SUPPORT

Associate of Applied Science Degree
Advisor: Bruce Gottwig
The Computer Technology Program prepares individuals to assume a role in computer support with skills and responsibilities in user support, hardware and software troubleshooting, and basic system maintenance.
The Network Support Degree prepares students for a career in supporting Local Area Networks (LAN) and Wide Area Networks (WAN) with a focus on the skills required to understand and manage the operation of a small and large computer network.

Upon completion of the Network Support Degree, students will be able to successfully design, implement, manage, and maintain effective network infrastructures for both home and corporate clients as an entry level network technician / system administrator.

## Outcomes: Graduates are prepared to:

- Utilize TCP/IP applications to prove their understanding of networking protocols used to control modern networking infrastructures.
- Master the concepts of the theoretical OSI networking model.
- Create, maintain, and troubleshoot both wired and wireless network infrastructures and infrastructure devices.
- Employ and master the skills needed to create and maintain server based networks using both Microsoft Windows and Open source Linux server systems.
- Develop and implement a logical troubleshooting and maintenance system for Personal Computing systems.
- Prepare for networking support industry standard certifications such as: CCNA, CCNP, MCSA or MCSE, and CompTIA Network+.

Estimated Program Cost:

| Tuition and Fees | $\$ 7455$ |
| :--- | ---: |
| Application Fee | 30 |
| Lab Fees | 150 |
| Books/Supplies | $\underline{1650}$ |

SUMMER SEMESTER

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| CIT | 111 | Intro to Comp for Tech Majors | $3+$ |
| CIT | 125 | Fund of Voice and Data Cabling | $3+$ |
| CIT | $166^{*}$ | Computer Operating Systems | $4^{+}$ |
|  |  | Subtotal | 10 |

$\sim$ CIT 111 may be taken Fall semester year one.
CIT 125 and 166 can be taken either semester year one.

## Fall Semester

| Course | No | Title | Credits |
| :--- | :--- | :--- | ---: |
| CIT | $126^{*}$ | Networking Fundamentals | $3+$ |
| CIT | $176^{*}$ | Routers and Routing Basics | $3+$ |
| CIT | $210^{*}$ | Network Operating Systems I | $2+$ |
| CIT | $211^{*}$ | Network Operating Systems II | $2+$ |

## Changes to Computer Information Technology Network Support AAS

- CIT 279 has been replaced by CIT 284 Implementing Secure Converged Wide-area Network Students can use either CIT 279 OR CIT 284
- CIT 282 has been replaced by CIT 285 Optimizing Converged Networks

Students can use either CIT 282 OR CIT 285
Approved by Curriculum Committee August, 2007

Pre or Co-requisites: CIT 110, CIT 111 or Instructor Approval
No change to course description.
CIT 176 ROUTERS AND ROUTING BASICS (CCNA 2)
Credits: 3
(F)

Pre or Co-requisites: CIT 126
No change to course description.

## CIT 210

NETWORKING OPERATING SYSTEMS I
Credits: 3
(F)

Pre or Co-requisites: CIT 111, CIT 166
No change to course description.

CIT 211
Credits: 3

NETWORKING OPERATING SYSTEMS II
(F)

Pre or Co-requisites: CIT 111, CIT 166, 210
No change to course description.
CIT 272
Credits: 3 $\quad$ PC TROUBLESHOOTING/MAINTENANCE

Credits: 3
( $\mathrm{F}, \mathrm{S}$ )
Pre or Co-requisites: CIT 111 or Instructor Approval
No change to course description.

## CIT 284 Implementing Secure Converged Wide-area Networks

Credits: 4
Prerequisite: CIT 276, CCNA TechPrep or CCNA certification
CIT 284 Implementing Secure Converged Wide-area Networks is one of four courses leading to the Cisco Certified Network Professional (CCNP) designation. Implementing Secure Converged Wide-area Networks introduces Students to providing secure enterprise-class network service for teleworkers and branch sites. Students will learn how to secure and expand the reach of an enterprise network with focus on VPN configuration and securing network access. Topics include teleworker configuration and access, frame-mode MPLS, site-to-site IPSEC VPN, Cisco
EZVPN, strategies used to mitigate network attacks, and Cisco device hardening.
CIT 279 will be replaced by CIT 284

Prerequisite: CIT 276, CCNA TechPrep, or CCNA certification
CIT 285 Optimizing Converged Networks is one of four courses leading to the Cisco Certified Network Professional (CCNP) designation. Optimizing Converged networks introduces students to optimizing and providing effective QOS techniques in converged networks operating voice, wireless and security applications. Topics include implementing a VOIP network, implementing QoS on converged networks, specific IP QoS mechanisms for implementing the DiffServ QoS model, AutoQoS, wireless security and basic wireless management.

CIT 282 will be replaced by CIT 285
Approved by Curriculum Committee, August 2007

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# COMPUTER SERVER ADMINISTRATION <br> CERTIFICATE OF APPLIED SCIENCE DEGREE <br> APPROVED BY BOR NOVEMBER, 2007 

## ADVISOR: BRUCE GOTTWIG

The Computer Server Administration program prepares individuals for employment in the computer networking field, specifically focusing on server management, maintenance, and administration. Students in this program gain hands-on experience with computer hardware, software and networks. Upon successful completion of the program, the student will have the needed skills to sit for CompTIA Network+, Linux+ and Microsoft MCSA/MCSE certifications.

## Outcomes: Graduates are prepared to

- Demonstrate an advanced level understanding of Microsoft 2003 server configuration.
- Demonstrate a basic understanding network infrastructure design and configuration.
- Demonstrate a basic understand of the Linux server operating system.
- Pass the MCSA / MCSE industry standard certification exam battery with at least an $70 \%$.
- Obtain and keep a computer server professional position within the workforce.


## Required General Education Courses

| Course No. | Course Title | Credits |
| :--- | :--- | :---: |
| ENGL 121** | Composition I | $3+$ |
| COMM 135 | Interpersonal Communication | $3+$ |
| MATH 108** | Algebra for College Students OR |  |
| MATH 130** | Pre-calculus Algebra OR |  |
| MATH 150** | Math for Liberal Arts OR |  |
| MATH 181** | Calculus | $3-4+$ |
|  |  | Subtotal 9-10 |

Required Technical Courses

| Course No. | Course Title | Credits |
| :--- | :--- | :--- |
| CIT 111 | Introduction to Computers | $3+$ |
| CIT 166* | Computer Operating Systems | $4+$ |
| CIT 210* | Network Operating System 1 | $2+$ |
| CIT 211* | Network Operating System 2 | $2+$ |
| CIT 212* | Network Operating System 3 | $2+$ |
| CIT 213* | Network Operating System 4 | $2+$ |
| CIT 215* | Network Operating System 5 | $2+$ |
| CIT 216* | Network Operating System 6 | $2+$ |
| CIT 126* | Networking Fundamentals | $3+$ |
| CIT 176* | Routers and Routing Basics | $3+$ |
| CIT 208* | Fundamentals of UNIX/Linux | $4+$ |

TOTAL PROGRAM CREDITS - 38-39~

Note: Some of the courses are offered in a $1 / 2$ semester format: CIT 210/CIT 211 are offered Fall Semester year one; and CIT 212/CIT213 are offered Spring Semester year one. It is important that students enroll in both sets of courses at the same time.

[^2]+ A grade of "C-"or above required for graduation * Indicates prerequisites needed ** Placement in course(s) is determined by admissions assessment


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Creative Arts Enterprise Certificate of Applied Science
No classes taught Fall, 2007

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## EMT-Intermediate 99 <br> Certificate

The Certificate in EMT-Paramedic has been removed. The College still offers the Associate of Applied Science in EMT-Paramedic (refer to page 62 in the 2007-2008 catalog). The College now offers a Certificate of Applied Science in EMT-Intermediate 99.

APPROVED BY BOR, May 2007
Upon completion of the EMT Intermediate 99 and the EMT-Basic program, students will be prepared to begin a successful career in emergency care and transportation in emergency and non-emergency settings. Students are prepared to sit for the National Registry Certification Examination to gain licensure.

## Graduates will be prepared to:

- Understand human anatomy and physiology with emphasis on the respiratory, cardiovascular, endocrine and musculoskeletal systems.
- Understand pharmacology, pathophysiology and medical terminology.
- Practice more advanced emergency medical skills that include utilization of cardiac monitors and defibrillators, provision of fluid resuscitation through intravenous access and limited pharmacological interventions.
- Demonstrate proficiency in emergency medical skills such as CPR, airway control, oxygenation, wound care, splinting, and cervical spine immobilization.

Upon completion of the EMT-I 99 program, students will be prepared to begin a successful career in emergency care and transportation in emergency and non-emergency settings. Students are prepared to sit for the National Registry Certification Examination to gain licensure as EMT Intermediate 99.

Fall Semester
Course No.
Title

## Credits

| AH | 140 |
| :--- | :--- |
| AH | 145 |
| ENGL | $119 * *$ |
| COMM | 135 |
| EMS | 137 |
|  |  |
| Spring Semester |  |
| Course No. |  |


| Course No. |  | Title | Credits |
| :--- | :--- | :--- | :---: |
| MATH | $161^{* *}$ | College Algebra w/ Science Applications | 3 |
| EMS | 140 | EMT - Intermediate I | $4+$ |
| EMS | 155 | EMT - Intermediate II | $3+$ |
| EMS | 217 | EMT - Intermediate III | $4+$ |
| EMS | 222 | EMT - Intermediate I Clinical | $1+$ |
| EMS | 227 | EMT - Intermediate II Clinical | $2+$ |

## Total Program Credits - 33~

## Summer Semester

Student could enter summer semester by taking EMT 137 Basic and/or other courses, completing in three semesters. Students could also enter fall semester as above, but finish the following summer, thereby lowering number of credits per semester. Student actually finishes ambulance internship for I99 courses at end of June.

[^3][^4]
# Policy on Experiential Learning 

## Approved by Leadership Team, May 2007

## Directly affects the challenge testing on page 6 of the 2007-2008 catalog

MSU-Great Falls College of Technology (MSUGF) recognizes that learning occurs outside of the college setting. The outcome of this learning is often the acquisition of skills and/or knowledge which may be equivalent to learning at MSUGF and other institutions of Higher Education. MSUGF
may award credit for this learning through the MSUGF Experiential Learning Policy. This policy is based on the Northwest Commission on Colleges and Universities (NWCCU) Policy 2.2.
assigned, and it will not count toward the students' GPA.
K. Materials and documents submitted for consideration of credit for experiential learning
L. must comply with all MSU-Great Falls and Montana University System Policies. No experiential learning credit is guaranteed.
M. Credits granted for experiential learning at MSUGF COT may transfer to other institutions. Students should check with the transfer institution regarding transferability.
N. All submitted materials and documents become part of the students' academic record and will not be returned.
O. Credit awarded for experiential learning will become part of the students' academic transcript.
P. The student is responsible for providing the appropriate documentation as required by the guidelines and/or criteria established by the faculty member, program director, or department chair for the award of credit of experiential learning.
Q. Students will be assessed an experiential learning fee for each course substituted through the award of Experiential Learning Credit. This fee will be $1 / 3$ of the cost for the tuition of the course had the student enrolled in it through traditional means.
R. Experiential learning credits do not count towards enrollments in evaluating financial aid status.

Contact instructor, program director or department chair for help with the process \& to obtain the correct paperwork.

## HEALTH INFORMATION TECHNOLOGY COURSE DESCRIPTION CHANGES

## HI 132 HEALTH DATA CONTENT AND STRUCTURE

Credits: 3

Prerequisites or Co-requisites: AH 185, BIO 127
This course provides orientation to the health information department and its organization interrelationships in healthcare facilities. This course also covers the content and format of the health record (both conventional and alternative formats), quantitative and qualitative analysis of the record according to regulatory and accreditation standards, numbering, filing, retention, storage, and destruction of records. Application will include real health records and exposure to health record management software.

## HI 156 LEGAL AND REGULATORY ASPECTS OF HEALTHCARE

Credits: 3
(S only)
Prerequisites: ENGL 119 or higher
This course covers basic knowledge of the legal, regulatory, and ethical aspects of healthcare including: doctrines, principles, and processes of civil law; state licensure and national accreditation standards; and professional requirements for personal liability, confidentiality, and documentation of the health record. Application will be achieved using extensive discussion and case studies designed to approximate real life situations.

## HI 237 CPT CODING

Credits: 3

Prerequisites: HI 236 or concurrent enrollment
This course covers basic and intermediate levels of theory and application of CPT principles to code procedures documented in healthcare records. Students perform basic and intermediate coding using real health records, case studies, and scenarios. HCPCS coding is also covered. Application will also include book and an introduction to encoder soft ware. This coding class requires hands-on coding skills, and knowledge of basic use of applicable coding books are an expectation.

## HI 245 Simulated Lab - Practicum Preparation

Credits: 2

Prerequisite: Completion or concurrent enrollment of all courses in first 4 semesters of the HIT program and approval by the program director.

Lab based course where students utilize the AHIMA virtual lab. The virtual lab exposes students to software utilized in Health Information Technology. Professionalism in the workplace will also be covered. This is a preparatory course for the HIT practicum HI 270.

## HI 257 INTERMEDIATE CPT CODING

Credits: 3
Prerequisite: HI 236, HI 237
Basic understanding of the CPT, ICD-CM, coding principles should already be established. This advanced course will cover medical necessity, coding issues for specific body systems, and for general conditions. Intensive coding application will be achieved through the use of real health records, case studies, and scenarios. Application will include the use of encoder soft ware. DRGs, APCs, RUGs, RBRVs, and the Correct Coding Initiative (CCI) will also be covered in this class. This coding class requires hands-on coding skills, and knowledge of basic use of applicable coding books are an expectation.

## HI 270 PROFESSIONAL PRACTICE EXPERIENCE

## Credits: 2

Prerequisite: Completion of preceding courses and approval of program director.
Students in this course will gain professional practice experience in their program of study. Students create written records of their experiences and will complete assigned projects as indicated in their Professional Practice Experience Manual. This course is scheduled for 80 hours off campus. Each student will be responsible for their own transportation to and from the health care facility and any necessary living expenses.

HI 270 is replacing HI 150, HI 290 \& OO 290
Approved by ASCC August, 2007

## HI 292 TOPICS IN HEALTH INFORMATION TECHNOLOGY

Credits: 3
(S only)
Prerequisite or Co-requisites: HI 270 and/or completion of all courses in first 4 semesters of the HIT program.

The course provides a forum for students to prepare for the Registered Health Information Technician (RHIT) national examination sponsored through AHIMA. Reviewing and integrating new knowledge, regulations, and standards in the field of health information technology will be achieved. Guidance on the completion of job applications, preparing a resume, writing cover and follow-up letters, and job interviews (as both applicant and interviewer) are studied and practiced.

## HI 295 OVERVIEW OF HEALTH INFORMATICS SYSTEMS

## Credits: 4

(F only)
Suggested Prerequisites: AH 185, CIT 110, second semester or greater in Health Care Program.
This course will cover the principles of analysis, design, evaluation, selection, acquisition, and utilization of information systems in healthcare. Also included in this course are the technical specifications of computer hardware, soft ware, networks, and telecommunications. Furthermore, this course will provide an understanding of technology's role in healthcare. The course will emphasize the intellectual use of information strategic planning, decision support, program management, high quality patient care, and continuous quality improvement. Application will be done through the use of health record management soft ware and word processing application programs.

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#### Abstract

MEDICAL BILLING SPECIALIST Certificate of Applied Science Advisor: Deborah Newton

This program is offered completely on-line.

The Medical Billing Specialist works in a variety of settings including medical management organizations, physician offices, hospitals, clinics, group practices, billing companies and education. Students in this Certificate program are trained as entry-level billing specialists. The Medical Billing Specialist Program prepares students with the knowledge and technical skills necessary to perform the duties of a medical billing specialist in a variety of health care settings.


## Outcomes: Graduates are prepared to:

- Communicate effectively in both oral and written communication.
- Use the appropriate software and hardware for applications in the business office.
- Manage the information needed for successful operation of the business.
- Apply interpersonal relations concepts and techniques to personal and professional situations.
- Understand and apply mathematical concepts and models.
- Solve billing problems by applying business principles, communication standards, and office management skills.

A grade of "C" or above must be achieved in all courses to advance in the program.

## Estimated Program Cost:

| Tuition and Fees | $\$ 4473$ |
| :--- | ---: |
| Application Fee | 30 |
| Lab Fees | 35 |
| Books/Supplies | $\underline{1700}$ |
|  | $\$ 6238$ |

## Required Skill

00107 Keyboarding Basics or Challenge Exam
CIT 110 Introduction to Computers or Challenge Exam
Health Science Orientation will be required

## Fall Semester

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| AH | 185 | Basic Medical Terminology | 3 |
| BIO | 127 | Anatomy and Physiology I for <br> non-clinical major |  |
| ENGL | $121^{* *}$ | Composition I |  |
| HI | $132^{*}$ | Health Data Content and Structure | 3 |
| OO | $111^{*}$ | Fund of Health Insurance <br> Subtotal | 3 |
|  |  | Subto | $\frac{4}{7}$ |

## Spring Semester

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| AH | $201^{*}$ | Medical Science <br> Legal \& Regulatory Aspects <br> HI | $156^{*}$ | | 3 |
| :--- |
| HI |

## Summer Semester

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| HI | $237^{*}$ | CPT Coding | 3 |
| OO | $290^{*}$ | Insurance Internship | $\frac{3}{6}$ |

## Total Program Credits - 42~

$\sim$ Many students need preliminary math and English courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and English placement before planning out their full program schedule.


+ A grade of "C-"or above required for graduation * Indicates prerequisites needed ** Placement in course(s) is determined by admissions assessment


## Changes to Medical Billing Specialist

- OO 290 - Insurance Internship was listed incorrectly. It should be:

OO 290 - Insurance Internship for 2 credits, not 3 credits

- OO290 is being replaced by HI 270 (see course description) Approved by ASCC August 2007


# MEDICAL BILLING AND CODING SPECIALIST <br> ASSOCIATE OF APPLIED SCIENCE <br> APPROVED BY BOR NOVEMBER, 2007 

## ADVISOR: LYNN WARD

## Prerequisite Skills:

Proof of computer literacy and keyboarding competency (Program advisor to approve through student competency evidenced by high school or college courses, or skills assessment test). Health Science Orientation -online completion required

FALL SEMESTER

| Course No. | Title | Credits |
| :--- | :--- | :---: |
| AH 101 | Healthcare Delivery | 3 |
| AH 185 | Basic Medical Terminology | 3 |
| BIO 127 | A\&P I for Nonclinical Majors | 4 |
| MATH $103^{* *}$ or higher | Introductory Algebra | $3-4$ |

## SPRING SEMESTER

| Course No. | Title | Credits |
| :--- | :--- | :---: |
| AH 194 | Basic Pharmaceuticals | 1 |
| AH 201* | Medical Science | 3 |
| BIO 128* | A\&P II for Nonclinical Majors | 4 |
| HI 236* | ICD Coding | 3 |
| HI 237* | CPT Coding | 3 |
| SUMMER SEMESTER |  |  |
| Course No.* |  | Subtotal 14 |
| HI 256* |  |  |
| HI 257* |  | Intermediate ICD |

## FALL SEMESTER

| Course No. | Title | Credits |
| :--- | :--- | :---: |
| PSY 101 | General Psychology OR | 3 |
| SOC 111 | Introduction to Sociology |  |
| HI 132* | Health Data Content | 3 |
| $00111^{*}$ | Fundamentals of Insurance | 4 |
| HI 295* | Overview of Health Informatics | 4 |
|  |  | Subtotal 14 |

## SPRING SEMESTER

| Course No. | Title | Credits |
| :--- | :--- | :---: |
| HI 156* | Legal \& Regulatory | 3 |
| $00112^{*}$ | Advanced Insurance | 3 |
| ENG 124** | Business \& Professional Comm. | 3 |
| 00 290* | Billing/Coding PPE | 2 |
| 00 291* | Billing/Coding Capstone | 2 |
|  |  | Subtotal 13 |

TOTAL PROGRAM CREDITS -61-62-

[^5]
## Network Infrastructure Certificate of Applied Science

REPLACING CERTIFICATE IN NETWORK TECHNOLOGY on page 45 in the 2007-2008 catalog
APPROVED by BOR, May 2007

## Advisor: Bruce Gottwig

## Program Outcomes:

Upon the completion of the Networking Infrastructure Certificate students should be prepared to:

- Demonstrate an entry level understanding of network infrastructure cabling.
- Install and basically configure network routers and switches.
- Pass the Cisco Certified Network Associate industry standard certification exam with at least an $80 \%$.
- Pass the CompTIA A+ industry standard certification exam battery with at least an
- 80\%.
- Obtain and keep an entry level computer networking professional position in the workforce.

| Required General Education Courses |  |  |
| :--- | :--- | ---: |
| Course \# | Course Title | Credits |
| ENGL $121^{* *}+$ | Composition I | 3 |
| COM $135^{* *}+$ | Interpersonal Communication | 3 |
| MATH $108^{* *}+$ | Algebra for College Students OR |  |
| MATH $130^{* *+}$ | Pre-calculus Algebra OR |  |
| MATH $150^{* *}+$ | Math for Liberal Arts OR |  |
| MATH $181^{* *+}$ | Calculus | Subtotal | | $3 / 4$ |
| :--- |


| Required Technical | Core Courses |  |
| :--- | :--- | ---: |
| Course \# | Course Title | Credits |
| CIT $111+$ | Introduction to Computers | 3 |
| CIT $125^{* *}+$ | Fund of Voice and Data Cabling | 3 |
| CIT $126^{*}+$ | Networking Fundamentals | 3 |
| CIT $176^{*}+$ | Routers and Routing Basics | 3 |
| CIT $226^{*}+$ | Switching Basics \& Int. Routing | 3 |
| CIT $276^{*}+$ | Introduction to WAN Technologies | 3 |
| CIT $272^{*}+$ | PC Troubleshooting/Maintenance | 3 |
|  | Total Program Credits 30-31 |  |

+ A grade of "C-"or above required for graduation
* Indicates prerequisites needed
** Placement in course(s) is determined by admissions assessment

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# Office Support <br> Certificate Of Applied Science 

## Advisor: Donna Eakman <br> Deborah Newton

The one-year certificate program in Office Support prepares students for entry level positions in a variety of office setting. The program emphasizes skills in oral and written communications, word processing, ten-key, records management, keyboarding and document formatting. Students may emphasize areas in general office skills, the legal office, or the medical office by selecting appropriate elective courses. All courses transfer into the AAS degree in Office Administration and Technology.

## Outcomes: Graduates are prepared to:

- communicate effectively in both oral and written communication;
- use the appropriate software and hardware for applications in the business office;
- manage the information needed for successful operation of the business;
- apply interpersonal relations concepts and techniques to personal and professional situations;
- understand and apply mathematical concepts and models;
- solve business problems by applying business principles, communication standards, and office management skills.

| Estimated Program Cost: |  |  |
| :--- | ---: | ---: |
| Tuition and Fees |  | $\$ 2982$ |
| Application Fee | 30 |  |
| Books/Supplies |  | $\mathbf{9 0 0}$ |
|  |  | $\$ 3912$ |


| Spring Semester |  |  |  |
| :--- | :--- | :--- | :--- |
| Course | No. | Title |  |
| COMM | 135 | Interpersonal Communication3 $\dagger$ |  |
| OO | $173^{*}$ | Computer Calculators | $1 \dagger$ |
| OO | 220 | Resumes | $1 \dagger$ |
| OO | 221 | Interviewing for Jobs | $1 \dagger$ |
| OO | $265^{*}$ | WordPerfect OR |  |
| OO | $266^{*}$ | Microsoft Word | $3 \dagger$ |
| OO | $295^{*}$ | Admin Office Procedures | $3 \dagger$ |
|  |  | Elective | $\underline{3 \dagger}$ |
|  |  | Subtotal | 12 |

## Required Skills

OO 107 Keyboarding Basics or Challenge exam

## Fall Semester

| Course | No. | Title | Credits |
| :--- | :--- | :--- | :---: |
| CIT | 110 | Introduction to Computers | $3+$ |
| ENGL | $124^{* *}$ | Business \& Professional Comm | $3+$ |
| MATH | $104^{* *}$ | Business Math | $4+$ |
| OO | $108^{*}$ | Advanced Keyboarding | $3+$ |
| OO | 179 | Records Management | $3+$ |
|  |  | Elective | $\underline{+\dagger}$ |
|  |  | Subtotal | 19 |

## Electives -

## Select two from the following (CONSULT advisor)

| Course | No. | Title | Credits |
| :--- | :--- | :--- | :---: |
| ACCT | 101 | Accounting Procedures I | $3 \dagger$ |
| AH | 185 | Basic Medical Terminology | $3 \dagger$ |
| OO | $111^{*}$ | Fund of Health Insurance | $4 \dagger$ |
| OO | 180 | Legal Studies | $3 \dagger$ |
| OO | $260^{*}$ | Machine Transcription | $3 \dagger$ |

## Total Program Credits - 34-35~

~Many students need preliminary math and English courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and English placement before planning out their full program schedule.

## Changes to Office Support

- OO 180 - Legal Studies and is 4 credits, not 3 .
- There are no longer any options in the degree.

[^6]
## Office Technology Associate of Applied Science Degree <br> Advisors: Donna Eakman <br> Deborah Newton

The Office Administration and Technology program is designed to prepare students with the technical skills and knowledge necessary for careers in a variety of business and office settings. The program emphasizes in-depth training in a wide variety of office skills, including computer technology, oral and written communication skills, transcription, records management, keyboarding and document formatting. Students may choose to specialize in executive, legal, or medical specialty areas.

## Outcomes: Graduates are prepared to:

- communicate effectively in both oral and written communication;
- use the appropriate software and hardware for applications in the business office;
- manage the information needed for successful operation of the business;
- apply interpersonal relations concepts and techniques to personal and professional situations;
- understand and apply mathematical concepts and models;
- solve business problems by applying business principles, communication standards, and office management skills.


## Estimated Program Cost:

| Tuition and Fees | $\$ 7455$ |
| :--- | ---: |
| Application Fee | 30 |
| Books/Supplies | $\underline{1550}$ |
|  | $\$ 9035$ |

## Required Courses:

OO 107 Keyboarding Basics or Challenge Exam

## Fall Semester

| Course | No. | Title | Credits |
| :--- | :--- | :--- | :---: |
| CIT | 110 | Introduction to Computers | $3 \dagger$ |
| ENGL | $121^{* *}$ | Composition I | $3 \dagger$ |
| MATH | $104^{* *}$ | Business Mathematics | $4 \dagger$ |
| OO | 179 | Records Management | $3 \dagger$ |
| Executive or Legal Specialty: |  |  |  |
| OO | 180 | Legal Studies I | $3 \dagger$ |

OR
Medical Specialty:

| AH | 185 | Basic Medical Terminology <br> Subtotal | $\frac{3 \dagger}{16}$ |
| :--- | :--- | :--- | :--- |

## Spring Semester

| Course | No. | Title | Credits |
| :--- | :--- | :--- | :---: |
| BUS | 106 | Intro to Business | $3 \dagger$ |
| OO | $108^{*}$ | Advanced Keyboarding | $3 \dagger$ |
| OO | $260^{*}$ | Machine Transcription | $3 \dagger$ |
| OO | $266^{*}$ | Microsoft Word | $3 \dagger$ |
| Executive | Specialty: |  |  |
| CIT | $205^{*}$ | Database Management I | $3 \dagger$ |
| OR |  |  |  |

## OR

Legal Specialty:

## See suggested electives to left

OR
Medical Specialty:

| BIO | 127 | Anatomy \& Physiology I <br> for non-clinical majors | $\frac{4 \dagger}{15-16}$ |
| :--- | :--- | :--- | :--- |

[^7]
## Summer Semester

| Course No. | Title | Credits |
| :--- | :--- | ---: |
| Medical Specialty: |  |  |
| OO 111* | Fund of Health Insurance | $4 \dagger$ |

Fall Semester

| Course | No. | Title | Credits |
| :---: | :---: | :---: | :---: |
| ACCT | 101 | Accounting Procedures I | $3 \dagger$ |
| CIT | 120* | Internet Essentials | $2 \dagger$ |
| CIT | 140* | Presentation Fundamentals | $1+$ |
| COMM | 135 | Interpersonal Communication3 $\dagger$ |  |
| ENGL | 124** | Business \& Professional Comm | $3+$ |
| Executive or Legal Specialty: |  |  |  |
| BUS | 255* | Legal Environment | $3+$ |
| OR |  |  |  |
| Medical Specialty: |  |  |  |
| HI | 237* | CPT Coding | 3 |
|  |  | Subtotal | 15 |

## Spring Semester

| Course | No. | Title | Credits |
| :---: | :---: | :---: | :---: |
| CIT | 220* | Electronic Spreadsheets | $3 \dagger$ |
| OO | 173* | Computer Calculators | $1+$ |
| OO | 220 | Resumes | $1+$ |
| OO | 221 | Interviewing for Jobs | $1+$ |
| OO | 295* | Admin Office Procedures | $3+$ |
| Executive Specialty: |  |  |  |
| OO | 265* | WordPerfect | $3 \dagger$ |
| CIT | 280* | Desktop Publishing | $3 \dagger$ |
| OR |  |  |  |
| Legal Specialty: |  |  |  |
| OO | 265* | WordPerfect | $3 \dagger$ |
| OO | 287* | Legal Transcription | $4+$ |
| OR |  |  |  |
| Medical Specialty: |  |  |  |
| AH | 201* | Medical Science | $3+$ |
| OO | 255* | Med Transcription I | $\underline{3+}$ |
|  |  | Subtotal | 15-16 |

## Total Credits:

## Executive Specialty - 61~ Legal Specialty - 61~ Medical Specialty -66~

~Many students need preliminary math and English courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and English placement before planning out their full program schedule.

## Changes to Program

- Program Name has been changed to: Office Administration and Technology By BOR, May 2007
- OO 180 - Legal Studies I renamed to Legal Studies
- OO 180 - Legal Studies is 4 credits, not 3 .
- HI 237 - CPT Coding requires a grade of "C-" or above for graduation
- There are no longer any options in the degree.
- OO 181 - Legal Studies II removed from program and is no longer offered at the College. Suggested Electives to replace it include: Desktop Publishing, Medical Terminology, Accounting Procedures II, and Payroll Accounting

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## OFFICE TECHNOLOGY COURSE DESCRIPTION CHANGES

## 00180 LEGAL STUDIES

Credits: 4
(F)

Terms commonly used in the legal profession are introduced. Students will learn to define the terms and use them in legal context. In addition, students will be introduced to the legal field through the study of general law office procedures, ethics, court system and structure, civil litigation, and criminal law, and legal document format. This course is also designed to equip students with knowledge of procedures and with the basic attitudes, skills, and ethics required of a legal office employee.
Approved by ASCC November, 2007
00181 LEGAL STUDIES II
4

## NO LONGER OFFERED REMOVED FROM PROGRAM

by
de
ethics required of a legal office employee.
Approved by ASCC November, 2007

## 00290 INSURANCE INTERNSHIP

Credits: 2
(SU only)
Prerequisites: Satisfactory completion of all courses in the program and/or consent of the Program director.

Students will gain practical experience in insurance billing by working in a variety of medical facilities where they will have the opportunity to apply concepts studied in the medical billing curriculum. Facilities will include dental and medical offices, health insurance companies, hospitals, and independent billing companies.
Approved by ASCC August, 2007

## HI 270 PROFESSIONAL PRACTICE EXPERIENCE

Credits: 2
(S, SU)
Prerequisite: Completion of preceding courses and approval of program director.
Students in this course will gain professional practice experience in their program of study. Students create written records of their experiences and will complete assigned projects as indicated in their Professional Practice Experience Manual. This course is scheduled for 80 hours off campus. Each student will be responsible for their own transportation to and from the health care facility and any necessary living expenses.

HI 270 is replacing HI 150, HI 290 \& OO 290
Approved by ASCC August, 2007

Credits: 4
(S)

Prerequisite: OO 180; OO 260 or concurrent; OO 266 or concurrent, instructor approval.
Students prepare legal documents and correspondence from machine dictation. Along with study in the areas of civil litigation, family law, estate planning, probate, corporations, and real estate, emphasis is given to competencies in transcribing legal documents with correct formatting, punctuation, spelling, and legal terminology.

Approved by ASCC November, 2007

## 00291 BILLING/CODING CAPSTONE

Credits: 2
Utilizing information acquired in the curriculum, students will demonstrate a working knowledge of concepts, processes and procedures encountered in the physician office management setting. This will include scheduling, end-of-month reporting, managing accounts, abstracting from patient records, coding, and reimbursement as well as exposure to software utilized in the medical office setting. Professionalism and HIPAA will be reviewed.

Approved by ASCC November, 2007
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# NEW PROFESIONAL CERTIFICATE OPTIONS 

All approved by ASCC, May 2007

## CCNA PREPARATION CERTIFICATE

The CCNA Preparation Certificate will include the completion of the following courses:

| CIT 111 | Introduction to Computers for Tech Majors | 3 credits |
| :--- | :--- | :--- |
| CIT 126 | Networking Fundamentals | 3 credits |
| CIT 176 | Routers \& Routing Basics | 3 credits |
| CIT 226 | Switching Basics \& Intermediate Routing | 3 credits |
| CIT 276 | WAN Technologies | 3 credits |

## CCNP PREPARATION CERTIFICATE

The CCNP Preparation Certificate will include the completion of the following courses:

CIT 278
CIT 279
CIT 281
CIT 282

Advanced Routing
Remote Access Multilayer Switching Network Troubleshooting

4 credits
4 credits
4 credits
4 credits

## MOS PREPARATION CERTIFICATE

The MOS Preparation Certificate will include the completion of the following courses:

## CIT 110 Introduction to Computers OR

CIT 111 Introduction to Computers for Tech Majors 3 credits
CIT 120 Internet Essentials 2 credits
OO 266 Microsoft Word 3 credits
CIT 205 Database Management
CIT 220 Electronic Spreadsheets
3 credits

CIT 140 Presentation Fundamentals
3 credits
1 credit

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## Division of Outreach \& Workforce Development

## Professional and Continuing Education

An integral and growing part of the College's outreach mission are those activities termed "professional and continuing education" specifically, "non-academic" learning opportunities providing workforce preparation, employee training or re-training, business support, and life-long learning. These educational activities may be organized under varying instructional formats -- workshops, seminars, conferences, institutes, symposia, colloquia, short courses, etc.; however, they are aligned in their focus on imparting information to community members, employers, employees, and other groups in a high-quality, results-oriented manner. These activities are a major component of the workforce development mission extending the College's resources throughout the community.

The Division of Outreach and Continuing Education at Montana State University-Great Falls College of Technology anticipates and/or assesses needs for professional and continuing education and facilitates the delivery of coursework and programs to meet these needs. The Division is founded on the philosophy of academic excellence, entrepreneurship, sound business practice, and community collaboration. Training and educational opportunities are provided through the Centers for Extended Studies, Continuing Education, and Customized Training.

## Center for Extended Studies

The Center for Extended Studies provides Professional Certifications, Certificate, and Degree programs as well as credit-bearing (116) courses both on and off-campus. Credit-bearing courses provide excellent professional development opportunities for teachers who are in need of re-licensure with the State and also serve as general electives for students pursuing an Associate of Arts Degree at the College.

## Professional Certifications

Note: All professional certifications are under review. Contact the Outreach Department at (406) 771.4303 for more information.
The Center for Extended Studies and the college's academic departments offer Professional Certification programs which provide the student with the opportunity to move rapidly into the job market with a core of skills. The Professional Certification programs are offered during the day, late afternoon, and evening as well as online to afford individuals the opportunity to earn credits while working. Serving as pivotal courses in many degree and certificate programs, these courses provide students the opportunity to utilize the credits to earn a Degree or a Certificate at a later date.


BUSINESS MANAGEMENT

| Course No. | Title |  |
| :--- | :--- | :--- |
| BUS | 106 | Introduction to Business |
| BUS | $255^{*}$ | Legal Environment |
| BUS | $240^{*}$ | Advertising |
| BUS | $230^{*}$ | Management |
| BUS | $235^{*}$ | Marketing |
| COMM | 130 | Public Speaking OR |
| COMM | 135 | Interpersonal Communica |
|  |  | Total |

COMPUTERIZED ACCOUNTING

| Course | No. | Title |
| :--- | :--- | :--- |
| ACCT | 101 | Accounting Procedures I |
| ACCT | $102^{*}$ | Accounting Procedures II |
| ACCT | $190^{*}$ | Payroll Accounting |
| CIT | 110 | Introduction to Computer |
| CIT | $220^{*}$ | Electronic Spreadsheets |
| MATH | $104^{* *}$ | Business Mathematics |
| OO | 173 | Computer Calculators |
|  |  | Total |

## LEGAL INFORMATION

| Course | No. | Title |
| :--- | :--- | :--- |
| CIT | 110 | Introduction to Computer |
| ENGL | $120^{* *}$ | Introduction to Compositi |
| ENGL | $121^{* *}$ | Composition I |
| OO | 107 | Keyboarding Basics OR |
| OO | $108^{*}$ | Adv Keyboarding and Forr |
| OO | $180^{*}$ | Legal Studies I |
| OO | $260^{*}$ | Machine Transcription |
| OO | $265^{*}$ | WordPerfect OR |
| OO | $266^{*}$ | Microsoft Word |
| OO | $287^{*}$ | Legal Transcription |
|  |  | Total |

## MICROCOMPUTER APPLICATIONS

| Course | No. | Title |
| :--- | :--- | :--- |
| CIT | 110 | Introduction to Computer |
| CIT | $120^{*}$ | Internet Essentials |
| CIT | $166^{*}$ | Computer Operating Syste |
| CIT | $205^{*}$ | Database Management |
| CIT | $220^{*}$ | Electronic Spreadsheets |
| MATH | $103^{* *}$ | Introductory Algebra |
| OO | $265^{*}$ | WordPerfect OR |
| OO | $266^{*}$ | Microsoft Word |
|  |  | Total |

MICROCOMPUTER WORD PROCESSIN

| Course | No. | Title |
| :--- | :--- | :--- |
| CIT | 110 | Introduction to Computer: |
| CIT | 120 | Internet Essentials |
| ENGL | $121^{* *}$ | Composition I |
| OO | 107 | Keyboarding Basics <br> OO |
| $108^{*}$ | Advanced Keyboarding <br> and Formatting |  |
| OO | $265^{*}$ | WordPerfect OR <br> OO |
| OO | $266^{*}$ | Microsoft Word <br> Administrative Office Proc |
|  | $295^{*}$ | Admal <br> Total |

## PARAMEDIC

| Course | No. | Title |
| :--- | :--- | :--- |
| AH | $140^{*}$ | Pharmacology |
| AH | 145 | Intro to Medical Terms |
| EMS | 102 | Fundamentals of Adv Care |
| EMS | 105 | Paramedic I |
| EMS | 110 | Paramedic I/II Skills Lab |
| EMS | 115 | Paramedic II |
| EMS | 120 | Paramedic I/II Clinical |
| EMS | 145 | ACLS Preparation |
| EMS | 146 | PALS Preparation |



## ~ INDUSTRY STANDARD CERTIFICATIONS

Montana State University - Great Falls College of Technology offers Professional Certification programs and courses that lead to Industry Standard Certification. Students who successfully complete these programs and/or courses are prepared to sit for certification exams. The certification programs are as follows:

## COMPTIA NETWORK+

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| CIT | $126^{*}$ | Networking Basics | 3 |
| CIT | $176^{*}$ | Router \& Routing Basics | 3 |
| CIT | $226^{*}$ | Switching \& Intermediate Routing | 3 |
| CIT | $276^{*}$ | WAN Technologies | 3 |

Note: Information provided in the four semesters of Cisco is designed to cover the CompTIA Network+ objectives.

COMPTIA A+

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| CIT | $272^{*}$ | PC Troubleshooting/Main | 4 |

## CISCO CERTIFIED NETWORKING ASSOCIATE (CCNA)

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| CIT | $126^{*}$ | Networking Basics | $3+$ |
| CIT | $176^{*}$ | Router \& Routing Basics | $3+$ |
| CIT | $226^{*}$ | Switching \& Intermediate Routing | $3+$ |
| CIT | $276^{*}$ | WAN Technologies | $3+$ |

Note: If the student completes each of the above Cisco courses with a final exam score of $80 \%$ or better, the student is eligible for a Cisco voucher worth $40 \%$ off the cost of the Certification exam at a certified Testing Center (cost with voucher is approximately $\$ 60$. The voucher discount is available at the discretion of Cisco systems.)

## CISCO CERTIFIED NETWORKING PROFESSIONAL (CCNP)

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| CIT | $278^{*}$ | Advanced Routing | 4 |
| CIT | $279^{*}$ | Remote Access | 4 |
| CIT | $281^{*}$ | Multilayer Switching | 4 |
| CIT | $282^{*}$ | Network Troubleshooting | 4 |

Successful completion of four examinations is required for the CCNP industry certification. At the completion of each of the above courses the student is prepared to take the corresponding examination.

## MICROSOFT MCP

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| CIT | $211^{*}$ | Network Operating Systems II OR | 2 |
| CIT | $166^{*}$ | Computer Operating Systems | 4 |

## MICROSOFT OFFICE SPECIALIST MICROSOFT WORD

| Course | No. | Title | Credits |
| :--- | :--- | :--- | :--- |
| OO | $266^{*}$ | Microsoft Word | 3 |

Note: After successfully completing the course listed above, students are prepared to take the MOS Word Core or Expert industry certification (depending on the student's consideration of readiness) examination at the local certified Testing Center.

## MICROSOFT OFFICE SPECIALIST MICROSOFT POWERPOINT

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| CIT | $140^{*}$ | Presentation Fundamentals | 1 |

Note: After successfully completing the course listed above, students are prepared to take the MOS PowerPoint industry certification examination at a local certified Testing Center.

## MICROSOFT OFFICE SPECIALIST MICROSOFT EXCEL

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| CIT | $220^{*}$ | Electronic Spreadsheets | 3 |

Note: After successfully completing the course listed above, students are prepared to take the MOS Excel Core or Expert industry certification (depending on the student's consideration of readiness) examination at a local certified Testing Center.

## MICROSOFT OFFICE SPECIALIST MICROSOFT ACCESS

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| CIT | $205^{*}$ | Database Management | 3 |

Note: After successfully completing the course listed above, students are prepared to take the MOS Access Core or Expert industry certification (depending on the student's consideration of readiness) examination at a local certified Testing Center.

## MICROSOFT CERTIFIED SYSTEM ADMINISTRATOR (MCSA)

Course No. Title Credits
CIT 126* Networking Basics 3
CIT 166* Computer Operating Systems 4
CIT 176* Router \& Routing Basics 3
CIT 211* Network Operating Systems II 2

CIT 272* PC Troubleshooting/Maintenance 4

The MCSA is a new Microsoft Exam that combines Microsoft industry examinations with CompTIA certification examinations. Please inquire with the Computer Technology faculty for specifics on the certification and for a schedule of semester classes to meet your certification and educational goals. Not all courses are offered every semester.

## WOW CERTIFIED WEB DESIGNER ASSOCIATE (CWDSA) WOW CERTIFIED ASSOCIATE WEB MASTER (CAW)

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| CIT | $229^{*}$ | Web Page Construction | 3 |
| CIT | $231^{*}$ | Web Page Design | 3 |
| CIT | $250^{*}$ | Web Page Programming | 3 |
| CIT | $217^{*}$ | Computer Graphic Design | 4 |

The CWDSA certification is an industry-standard test to show the student's proficiency in the visual arts and in creating the images and designs that capture and keep visitors' interest. They present aesthetically enticing designs that meet the requirements and preferences of their audience.

## PTA Accreditation Status Reinstated:

The Physical Therapist Assistant Program at Montana State University - Great Falls College of Technology received full initial accreditation from the Commission on Accreditation in Physical Therapy Education (CAPTE) of the American Physical Therapy Association (APTA) in December 1997. The program hosted an on-site visit in October 2002, and in April 2003 CAPTE voted to fully re-accredit the PTA Program for a ten-year period lasting until 2012. However, as the program went into a state of moratorium, MSU Great Falls College of Technology filed an application for approval of substantive change to reinstate accreditation. The PTA program has achieved accreditation.

CAPTE voted to reinstate accreditation status of the Physical Therapist Assistant Program at Montana State University - Great Falls College of Technology as of May 16, 2007. A Progress Report must be submitted to CAPTE by September 4, 2007 documenting progress toward compliance in the areas specified in the Summary of Action from CAPTE of the APTA. An on-site review visit to the program will occur after the submission of the Progress Report and before the first class of students in the reinstated program graduate. PTA programs are required by the US Department of Education to come into compliance with all evaluative criteria within two years.

CAPTE can be contacted as follows: Commission on Accreditation in Physical Therapy Education, 1111 North Fairfax Street, Alexandria, Virginia 22314, accreditation@apta.org, (703) 684-2782 or (703) 706-3245.

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## PRACTICAL NURSE

Associate of Applied Science

## APPROVED BY BOR MAY 2007 - NO CURRICULAR CHANGES

## Advisors: Cheryll Alt Patti Kercher Cindy Schultz

The Practical Nurse program prepares individuals to function as entry-level practical nurses with the ability to give safe, effective nursing care. The Practical Nurse program at Montana State University - Great Falls College of Technology is currently approved by the Montana State Board of Nursing.

Upon completion of the Associate of Applied Science in Practical Nursing, students will be prepared to begin a successful career as a practical nurse. Students are prepared to sit for the national licensure examination for practical nursing.

## Outcomes: Graduates are prepared to:

- Practice nursing skills effectively.
- Communicate professionally with all medical and supportive staff.
- Use technology in patient care.
- Work in a variety of health care settings such as hospitals, ambulatory care, physician's offices, home healthcare, dialysis, assisted living facilities and other geriatric environments.

The Practical Nurse program is a limited enrollment program. Interested students must apply for entry into the program by contacting the advisor for an application packet. The length of the program is three consecutive semesters. Accepted students will be required to provide proof of Health Care Provider CPR certification, negative Tuberculosis test, and provide a physician's authorization before the beginning of the fall semester. Computer skills are highly recommended.

The Hepatitis B immunization series is strongly recommended before entrance into the program. A student may be denied access to clinical rotations without an adequate Hepatitis B titer. Students having religious or personal conflicts against receiving Hepatitis B vaccine must sign a release form.

| Estimated Program Cost: |  |
| :--- | ---: |
| Tuition and Fees | $\$ 7455$ |
| Application Fee | 30 |
| Insurance | 24 |
| Lab Fees | 230 |
| Books | 2250 |
| Uniforms | $\underline{\mathbf{2 2 5}}$ |
|  | $\$ 10214$ |

## Prerequisite Coursework

The following courses must be completed or be in progress prior to admission into the Practical Nurse Program. All prerequisite course work must be completed with a minimum grade of "C-" in each course and a minimum cumulative GPA in prerequisite course work of 2.0. Grades in prerequisite courses are a major factor in ranking applications for program acceptance.

## First Semester

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| BIO | 213 | Anatomy \& Physiology I/Lab | 4 |
| CHM | $111^{*}$ | Inorganic Chemistry/ Lab | 4 |
| MATH | $161^{* *}$ | Algebra w/ Science Applications | 3 |
| NURS | 100 | Introduction to Nursing | $\underline{1}$ |
|  |  | Subtotal | 12 |

## Second Semester

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| AH | $219^{*}$ | Nutrition \& Diet Therapy | 2 |
| BIO | $214^{*}$ | Anatomy \& Physiology II/Lab | 4 |
| ENGL | $121^{* *}$ | Composition I | 3 |
| PSY | 101 | General Psychology | $\underline{3}$ |
|  |  | Subtotal | 12 |

Science courses must be completed within five (5) years of application to the program and other courses must be completed within 15 years of applying to the Practical Nurse Program.

Program Course Requirements After Formal Acceptance
The courses listed below are required in the program of study for the Certificate of Applied Science in Practical Nursing. The courses are offered at MSU Great Falls College of Technology in the following sequence:

Fall Semester

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| NURS | $140^{*}$ | Pharmacology | 3 |
| NURS | $150^{*}$ | Fundamentals of Nursing | 7 |
| NURS | $250^{*}$ | Gerontology | $\underline{2}$ |
|  |  | Subtotal | 12 |

## Spring Semester

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| NURS | $260^{*}$ | Adult Nursing | 7 |
| NURS | $270^{*}$ | Maternal Child Nursing | 3 |
| NURS | $280^{*}$ | Mental Health Nursing | $\underline{2}$ |
|  |  | Subtotal | 12 |

## Summer Term

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| NURS | $290^{*}$ | Nursing Leadership | $\underline{2}$ |
|  |  | Subtotal | 2 |

## Suggested Elective

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| AH | $120^{*}$ | IV Therapy | 1 |

*This class is a highly recommended addition to the standard nursing curriculum. It will provide you with IV certification which many employers value or require for employment.

Once enrolled in nursing courses, a minimum of a grade of "C-" in all courses is required to continue in the program. In the clinical setting, students must achieve a grade of $75 \%$ in all rotations of each clinical experience.

## Total Program Credits - 51~

~Many students need preliminary math and English courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and English placement before planning out their full program schedule.

[^8]
## RADIOLOGIC TECHNOLOGY

## Advisors: Greg Paulauskis <br> Tom Liston

Radiologic Technologists also referred to as Radiographers, work in a professional environment at a hospital, private office or clinic. Radiologic Technologists are trained to perform radiologic examinations in accordance with radiation safety standards for themselves, clinical staff and their patients. Skill sets include; patient care, positioning, operating $X$-ray equipment, film quality assessment, technical factors, and interacting with the general public, ancillary workers, healthcare workers, and physicians.

The Radiologic Technology student learns how to accurately demonstrate body structures by determining proper exposure factors, manipulating medical imaging equipment, evaluating the radiographic image quality; and providing for patient protection, safety, and comfort during radiographic procedures. Some technologists choose to specialize in computed tomography, magnetic resonance imaging, mammography, ultrasound, nuclear medicine, positron emission tomography or radiation therapy. Some of these modalities require additional certification. The student will be introduced to these specialty areas. Radiologic Technology is an expanding field in the area of medical diagnosis and treatment. Imaging methods and procedures are updated and implemented on a regular basis.

The Radiologic Technology Program is a two-year program designed to prepare individuals with the knowledge, skills and professional attitude necessary for successful employment as a Radiologic Technologist.

## Outcomes: Graduates are prepared to

- Employ professional judgment, problem solving, and critical thinking to identify, assess, and analyze the situation providing quality patient care in a safe and ethical manner.
- Demonstrate effective interpersonal skills through verbal and written communication.
- Practice within the standards established by the profession.
- Demonstrate appropriate cultural, legal, ethical and professional values.
- Practice as a qualified registered technologist in any type of patient care facility.

Accreditation for the Radiologic Technology Program is presently been acquired through Northwest Association Commission on Colleges. This regional accrediting agency is the organization that accredits MSU Great Falls CoT.

After completion of the program the graduate is eligible to take a nationally recognized certification examination administered by the American Registry of Radiologic Technologist (ARRT).

In seeking admission into the program, the student is required to complete the requirements of the Radiologic Technology Program Student Information and Application Packet. The Packet can be printed from the Program website.
Students in the Radiologic Technology Program must earn a "C" or better in ALL classes in the two-year program. Any grade less than a " C " in any class will result in the student having to retake that class. Computer skills, Medical Terminology, Physics, and Chemistry are highly recommended.

\section*{Estimated Program Cost: <br> | Tuition and Fees | $\$ 8946$ |
| :--- | ---: |
| Application Fee | 30 |
| Insurance | 75 |
| Books/Supplies | $\underline{1500}$ |
|  | $\$ 10551$ |}

## Degree completion Option

Students who have successfully completed and documented that they graduated from an accredited Radiologic Technology program and possess a current Radiologic Technologist State license may apply to the College's Radiologic Technology AAS Degree Completion program and earn a College Degree by taking all of the prerequisite courses listed below along with COMM 135, Interpersonal Communication. For more information contact Admissions or the Program Director of the Radiologic Technology Program.

NOTE: Applicants must complete the following courses with a minimum grade of " ${ }^{\text {" }}$ " in each course prior to formal acceptance into the program.

## Prerequisite Courses

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| BIO | 213 | Anatomy \& Physiology l/Lab | 4 |
| BIO | $214^{*}$ | Anatomy \& Physiology II/Lab | 4 |
| ENGL | $121^{* *}$ | Composition I | 3 |
| MATH | $161^{* *}$ | Algebra w/ Science Applications | $\frac{3}{2}$ |

The courses below are to be taken in the order that they are listed. Admission into the Radiologic Technology program is mandatory to qualify to take the courses below.

## FALL SEMESTER

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| RAD | 105 | Intro to Radiologic Technology | 2 |
| RAD | 110 | Radiographic Procedures I | 2 |
| RAD | 115 | Radiographic Principles I | 3 |
| RAD | 120 | Radiobiology/Radiation Protection | 3 |
| RAD | 140 | Clinical Education I | 6 |
|  |  | Subtotal | 16 |

## SPRING SEMESTER

| Course | No | Title | Credits |
| :--- | :--- | :--- | ---: |
| RAD | $111^{*}$ | Radiographic Procedures II | 3 |
| RAD | $116^{*}$ | Radiographic Principles II | 3 |
| RAD | 130 | Patient Care in Radiology | 2 |
| RAD | $141^{*}$ | Clinical Education II | 6 |
|  |  | Subtotal | 14 |

## SUMMER SEMESTER

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| RAD | $240^{*}$ | Radiologic Internship | $\frac{3}{3}$ |
|  |  | Subtotal |  |

## FALL SEMESTER

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| RAD | $210^{*}$ | Radiographic Procedures III | 4 |
| RAD | $220^{*}$ | Radiographic Principles III | 2 |
| RAD | $241^{*}$ | Clinical Education III | 6 |
|  |  | Subtotal | 12 |

## SPRING SEMESTER

| Course | No | Title | Credits |
| :--- | :--- | :--- | ---: |
| COMM | 135 | Interpersonal Communications | 3 |
| RAD | $215^{\circ}$ | Radiographic Procedures IV | 2 |
| RAD | $242^{\circ}$ | Clinical Education IV | 6 |
| RAD | 270 | Registry Review | 2 |
|  |  | Subtotal | 13 |

## TOTAL PROGRAM CREDITS - 72~

$\sim$ Many students need preliminary math and English courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and English placement before planning out their full program schedule.

## 07-08 PROGRAM CHANGES

- BIO 213 \& 214 have been replaced by BIO 202 (see new description)
- RAD 116's number was changed to RAD 117 (no course description change)

Approved by ASCC, October 2007

## RADIOLOGIC TECHNOLOGY

## Associate of Applied Science Degree (Effective for the 2008-2009 Catalog)

## Advisors: Greg Paulauskis

## TOM LISTON

Radiologic Technologists also referred to as Radiographers, work in a professional environment at a hospital, private office or clinic. Radiologic Technologists are trained to perform radiologic examinations in accordance with radiation safety standards for themselves, clinical staff and their patients. Skill sets include; patient care, positioning, operating X-ray equipment, film quality assessment, technical factors, and interacting with the general public, ancillary workers, healthcare workers, and physicians.

The Radiologic Technology student learns how to accurately demonstrate body structures by determining proper exposure factors, manipulating medical imaging equipment, evaluating the radiographic image quality; and providing for patient protection, safety, and comfort during radiographic procedures. Some technologists choose to specialize in computed tomography, magnetic resonance imaging, mammography, ultrasound, nuclear medicine, PET (positron emission tomography) or radiation therapy. Some of these modalities require additional certification. The student will be introduced to these specialty areas. Radiologic Technology is an expanding field in the area of medical diagnosis and treatment. Imaging methods and procedures are updated and implemented on a regular basis.

The Radiologic Technology Program is a two-year program designed to prepare individuals with the knowledge, skills and professional attitude necessary for successful employment as a Radiologic Technologist.

## Outcomes: Graduates are prepared to:

- Employ professional judgment, problem solving, and critical thinking to identify, assess, and analyze the situation providing quality patient care in a safe and ethical manner.
- 

Demonstrate effective interpersonal skills through verbal and written communication.

- Practice within the standards established by the profession.
- Demonstrate appropriate cultural, legal, ethical and professional values.
- Practice as a qualified registered technologist in any type of patient care facility.

Accreditation for the Radiologic Technology Program is presently been acquired through Northwest Association Commission on Colleges. This regional accrediting agency is the organization that accredits MSU Great Falls CoT.

After completion of the program the graduate is eligible to take a nationally recognized certification examination administered by the American Registry of Radiologic Technologist (ARRT).

In seeking admission into the program, the student is required to complete the requirements of the Radiologic Technology Program Student Information and Application Packet. The Packet can be printed from the Program website.

Students in the Radiologic Technology Program must earn a "C" or better in ALL classes in the two-year program. Any grade less than a "C" in any class will result in the student having to retake that class. Computer skills, Medical Terminology, Physics, and Chemistry are highly recommended.

| Estimated Program Cost: |  |
| :--- | ---: |
|  |  |
| Tuition and Fees | $\$ 8946$ |
| Application Fee | 30 |
| Insurance | 75 |
| Books/Supplies | $\underline{1500}$ |
|  | $\$ 10551$ |

## Degree Completion Option

Students who have successfully completed and documented that they graduated from an accredited Radiologic Technology program and possess a current Radiologic Technologist State license may apply to the College's Radiologic Technology AAS Degree Completion program and earn a College Degree by taking all of the prerequisite courses listed below along with COMM 135, Interpersonal Communication. For more information contact Admissions or the Program Director of the Radiologic Technology Program.

Applicants must complete the following courses with a minimum grade of
"C" in each course prior to formal acceptance into the program.

| Prerequisite Courses |  |  |  |
| :--- | :--- | :--- | ---: |
| Course | No. | Title | Credits |
| BIO | 202 | Human Anatomy for RAD Tech | 3 |
| AH | 145 | Intro to Medical Terminology | 1 |
| ENGL | $121^{* *}$ | Composition I | 3 |
| MATH | $103^{*}$ | Introductory Algebra or higher | $3-4$ |
| COMM 135 | Interpersonal Communication | 3 |  |
|  |  | Subtotal | $13-14$ |

The courses below are to be taken in the order that they are listed. Admission into the Radiologic Technology program is mandatory to qualify to take the courses below.

## Fall Semester

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| RAD | 105 | Intro to Radiologic Technology | 2 |
| RAD | 110 | Radiographic Procedures I | 2 |
| RAD | 115 | Radiographic Principles I | 3 |
| RAD | 120 | Radiobiology/Radiation Protection | 3 |
| RAD | 140 | Clinical Education I | $\underline{5}$ |
|  |  | Subtotal | 15 |

## Spring Semester

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| RAD | $111^{*}$ | Radiographic Procedures II | 3 |
| RAD | 117 | Radiographic Principles II | 3 |
| RAD | 130 | Patient Care in Radiology | 2 |
| RAD | $141^{*}$ | Clinical Education II | $\underline{6}$ |
|  |  | Subtotal | 14 |

## Summer Semester

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| RAD | $240^{*}$ | Radiologic Internship | $\underline{5}$ |
|  |  | Subtotal | 5 |

Fall Semester

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| RAD | $210^{*}$ | Radiographic Procedures III | 4 |
| RAD | $220^{*}$ | Radiographic Principles III | 2 |
| RAD | $241^{*}$ | Clinical Education III | $\underline{6}$ |
|  |  | Subtotal | 12 |

Spring Semester

| Course | No. | Title | Credits |
| :--- | :--- | :--- | ---: |
| RAD | $215^{*}$ | Radiographic Procedures IV | 2 |
| RAD | $242^{*}$ | Clinical Education IV | 8 |
| RAD | 270 | Registry Review | $\underline{2}$ |
|  |  | Subtotal | 13 |

## Total Program Credits - 71-72~

~Many students need preliminary math and English courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and English placement before planning out their full program schedule.

[^9]No change to course description
Approved by ASCC October, 2007

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## Residency Requirements

Under policies established by the Board of Regents, in accordance with Montana statutes regarding residency, all applicants for admission and all students at the units of the Montana University System shall be classified as in-state or out-of-state for fee purposes:

A person may be classified as in-state following a 12-month continuous period of domicile in Montana with a documented and dated intent to become a resident of Montana as outlined in the Montana University System Guide to Montana's Residency Policy, provided that the person is not registered for more than one-half of a full-time credit load at any post-secondary institution during the 12 month waiting period. Members of the United States Armed Forces assigned to active duty in Montana, their spouses, and dependent children during the member's tour of duty may be granted in-state residency for fee purposes.

The Western Undergraduate Exchange (WUE) is a program of the Western Interstate Commission for Higher Education (WICHE). Through WUE, students in western states may enroll in many two-year and four-year college institutions at a reduced tuition level: 150 percent of the institution's regular resident tuition. Visit the WICHE website at: http://www.wiche.edu/ or visit http://wue.wiche.edu/ for more specific WUE information.

Questions regarding residency status should be addressed to the Admissions \& Records Office.

Associate of Applied Science replacing Certificate on page 72 in 2007-2008 catalog

## APPROVEd by BOR MAY 2007 - MAJOR CURRICULAR CHANGES

## Advisor: Sandra Ondler

| Summer Semester (Prerequisite Courses) <br> Course No. |  |  |  | Credits |
| :--- | :--- | :--- | :---: | :---: |
| Title |  |  |  |  |

Subtotal 8
Fall Semester (Prerequisite Courses)

| Course No. | Title | Credits |  |
| :--- | :--- | :--- | :--- |
| PSY | 101 | Introduction to Psychology OR |  |
| COMM | 135 | Interpersonal Communication | 3 |
| AH | 145 | Introduction to Medical Terminology | 1 |
| BIO | $214^{*}$ | A\&P II with lab | 4 |
| MATH | $103^{* *}$ | Introductory Algebra | 4 |
| ENGL | $119^{* *}$ | Intro to Composition OR |  |
| ENGL | $124^{* *}$ | Business \& Professional Communication | 3 |

Subtotal 15
Contact Program advisor to find out how to apply \& get accepted into the program.
Spring Semester (After acceptance into the program)

| Course No. |  | Title | Credits |
| :--- | :--- | :--- | :---: |
| PHIL | 238 | Medical Ethics | 3 |
| BIO | $280^{*}$ | Microbiology with lab | 4 |
| SURG | $101 \mathbf{T}$ | Introduction to Safe Patient Care | 3 |
| SURG | 109 | Surgical Procedures Lab I | 3 |
| SURG | $154 \mathbf{T}$ | Surgical Pharmacology | 3 |

Fall Semester

| Course No. | Title | Credits |
| :--- | :--- | :---: |
| SURG $200 \mathbf{T}$ | Operating Room Techniques | 5 |
| SURG $201 \mathbf{T}$ | Surgical Procedures I | 4 |
| SURG 110 | Surgical Procedures Lab II | 3 |
| SURG 192 | Clinical Experience I | 4 |

Spring Semester

| Course No. | Title |  | Credits |
| :--- | :--- | :---: | :---: |
| SURG 205 T | Surgical Procedures II | 5 | 5 |
| SURG 193 | Clinical Experience II | 5 |  |
| SURG 194* | Internship | Subtotal 15 |  |

## Total Program Credits - 70 ~

(Courses marked with a $\mathbf{T}$ are taught online by UM-COT.)
~Many students need preliminary math and English courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and English placement before planning out their full program schedule.

[^10]
## SURG 101 Introduction to Safe Patient Care

3 credits
Course taught online by University of Montana - College of Technology
Prerequisite: Acceptance into Surg Tech program
Provides an orientation to the scrub and circulatory roles of the surgical technologist in the preoperative, intraoperative and postoperative periods. Entry level skills and theories are emphasized. (UM COT 07-08 catalog)

## SURG 154 Surgical Pharmacology

3 credits
Course taught online by University of Montana - College of Technology
Prerequisite: Acceptance into Surg Tech program
Basic overview of the medications that are commonly used before, during and after surgery. (UM COT 0708 catalog)

## SURG 200 Operating Room Techniques

5 credits
Course taught online by University of Montana - College of Technology
Prerequisite: Completion of $1^{\text {st }}$ semester of Surg Tech program classes
Focus on the scrub and circulator roles of the surgical technologist in the preoperative, intraoperative and postoperative periods. More complex skills and theories; impact of new technologies in the $21^{\text {st }}$ century operating room. (UM COT 07-08 catalog)

## SURG 201 Surgical Procedures I

## 4 credits

Course taught online by University of Montana - College of Technology
Prerequisite: Completion of $1^{\text {st }}$ semester of Surg Tech program classes
A study of surgical procedures following the patient through the preoperative, intraoperative, and postoperative stages of specific surgical specialties. (UM COT 07-08 catalog)

## SURG 205 Surgical Procedures II

5 credits
Course taught online by University of Montana - College of Technology
Prerequisite: Completion of $1^{\text {st }} \& 2^{\text {nd }}$ semester of Surg Tech program classes A study of surgical procedures following the patient through the preoperative, intraoperative and postoperative stages of CV/thoracic, orthopedic, neurological, and ophthalmic specialties. (UM COT 07-08 catalog)

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## TRANSFER FROM OTHER INSTITUTIONS

Effects the credit transfer information found on page 6 of the 2007-2008 Catalog

## Transfer From Other Institutions

Credits from other regionally accredited postsecondary institutions may be accepted as they apply to the established course requirements of Montana State University-Great Falls College of Technology under the following guidelines:

- The transferring student must initiate the request for evaluation of credit during the admission procedure by furnishing an official transcript from the transferring institution(s) and the necessary materials, including copies of the appropriate catalog descriptions or course syllabi, to the Admissions \& Records Office. Official transcripts must be sent directly by the issuing institution to the following address:

Admissions \& Records Office
MSU-Great Falls COT
2100 16th Ave S
Great Falls, MT 59405

- Grades less than a "C-" for previous course work will not be considered for transfer credit. Course work taken more than 5 years prior to transfer request may not be accepted. If transfer credit cannot be granted, the student has the option of challenging a course or courses.
- Transfer credit will be accepted only as it applies to the student's declared program of study.
- Students will be awarded a certificate/degree upon satisfactory completion of all program requirements, provided $25 \%$ of the credits required in the degree related program have been completed at MSU - Great Falls College of Technology.
- Transfer credit will be posted on the transcript for accepted transferred course work.
- Transfer grades are not figured in the grade point average (GPA).
- Students, who wish to appeal a decision regarding acceptance of transfer credit, should contact the Admissions/Records Office to receive information on the appeal process. Students may be asked to provide course descriptions and/or syllabi for an appeal.

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[^0]:    + A grade of "C-"or above required for graduation
    * Indicates prerequisites needed
    ** Placement in course(s) is determined by admissions assessment

[^1]:    + A grade of "C-"or above required for graduation
    * Indicates prerequisites needed
    ** Placement in course(s) is determined by admissions assessment

[^2]:    -Many students need preliminary Math, English, and/or Computer courses before enrolling in the program required courses. These courses may increase the total number of program credits. Students should review their Math and English placement scores as well as high school transcripts with an advisor before planning out their full program schedule.

[^3]:    ~Many students need preliminary Math, English, and/or Computer courses before enrolling in the program required courses. These courses may increase the total number of program credits. Students should review their Math and English placement scores as well as high school transcripts with an advisor before planning out their full program schedule.

[^4]:    + A grade of "C-"or above required for graduation * Indicates prerequisites needed ** Placement in course(s) is determined by admissions assessment

[^5]:    -Many students need preliminary Math, English, and/or Computer courses before enrolling in the program required courses. These courses may increase the total number of program credits. Students should review their Math and English placement scores as well as high school transcripts with an advisor before planning out their full program schedule.

[^6]:    + A grade of "C-"or above required for graduation
    * Indicates prerequisites needed
    ** Placement in course(s) is determined by admissions assessment

[^7]:    + A grade of "C-"or above required for graduation
    * Indicates prerequisites needed
    ** Placement in course(s) is determined by admissions assessment

[^8]:    + A grade of "C-"or above required for graduation
    *indicates prerequisites needed
    **placement in courses is determined by admissions assessment

[^9]:    + A grade of "C-"or above required for graduation *indicates prerequisites needed **placement in courses is determined by admissions assessment

[^10]:    + A grade of "C-"or above required for graduation
    *indicates prerequisites needed
    **placement in courses is determined by admissions assessment
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