

ADDENDUM TO 2007-2008 CATALOG

(Last Updated August 1, 2008)

This addendum reflects changes to the 2008-2009 Catalog that went into effect after the catalog went to print.

ACADEMIC CALENDAR AND DIRECTORY Health Science Orientation **Date Change** (refer to page 2 of the 2008-2009 Catalog)

ADMISSIONS – Residency Requirements In-State Completely Online Rate **Specification** (refer to page 6 of the 2008-2009 Catalog)

CARPENTRY Associate of Applied Science (**NEW Program** & **Curriculum Changes**)

CARPENTRY Certificate of Applied Science (**NEW Program** & **Curriculum Changes**)

CARPENTRY COURSE DESCRIPTIONS (Carpentry, Construction & Welding) **NEW**

HEALTH INFORMATION CODING SPECIALIST (HICS) Certificate of Applied Science **Curriculum Changes** (refer to page 57 of the 2008-2009 Catalog)

PHYSICAL THERAPIST ASSISTANT Associate of Applied Science **Curriculum Changes** (refer to Page 67 of the 2008-2009 Catalog)

PHYSICAL THERAPIST ASSISTANT COURSE DESCRIPTIONS **Updated**

PROGRAM COSTS **Additional Program Cost Information**

RESPIRATORY CARE Associate of Applied Science **Curriculum Change** (refer to Page 70 in 2008-2009 Catalog)

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ACADEMIC CALENDAR AND DIRECTORY

(Reflects changes to page 2 of the 2008-2009 Catalog after it went into print)

FALL SEMESTER 2008

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ADMISSIONS **Residency Requirements**

(Specifies Eligibility Requirements - Refer to page 6 of the 2008-2009 Catalog)

In-State completely online: A person classified as in-state, who *does not live* in the following counties – Glacier, Toole, Liberty, Hill, Pondera, Teton, Choteau, Lewis and Clark, Cascade, Judith Basin, Meagher, or Fergus – and is ONLY enrolling in online courses is able to receive adjusted tuition and mandatory fees.

The tuition and fee schedules can be found at: http://www.msugf.edu/adm_records/TuitionFees.htm

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CARPENTRY

ASSOCIATE OF APPLIED SCIENCE DEGREE

(NEW PROGRAM approved by BOR May, 2008)

Advisor: Patrick Schoenen

The Carpentry AAS degree program is designed to prepare students for entry-level employment at construction companies. The curriculum is aligned with the National Center for Construction Education and Research (NCCER) program curriculum. The training material is all standardized, competency-based, and task driven. The curricula are developed by the industry for the industry. Students will have the opportunity to earn national certification through NCCER for five of the five levels of NCCER curriculum. The student is then entered into a National Registry as having proven competence at the designated level. Program courses cover the basic to advanced fundamentals of:

- Safety, hand & power tools, & rigging.
- OSHA's 10 hr safety certification.
- Floor systems, wall, ceiling, & roof framing, windows & doors, basic stair layout, exterior finishes, roof applications, barriers, & metal studs.
- Concrete and its uses, foundations and flat work along with basic site layout protocol.
- Estimating and reading plans.
- Computer Aided Drafting (CAD).
- Intro to Business.

The program will take advantage of internship opportunities along with various hands on projects.

Students entering the program should have good manual dexterity skills, good physical condition, like to work outdoors in changing weather conditions and be comfortable working at varying heights.

Outcomes: Graduates are prepared to:

- Use construction skills in an entry-level residential or commercial construction job.
- Have possibilities of having the required apprenticeship time reduced.
- Utilize oral, written and listening skills to demonstrate an understanding of business practices and effectively interact with others.

Estimated Resident Program Cost:

Tuition and Fees	\$8998
Application Fee	\$30
Lab Fees	\$60
Books/Supplies	\$750
TOTAL:	\$9988

FALL SEMESTER 1

Course No.	Title	Credits
MATH 100	Math for the Trades	3
CNST 100*	Fundamentals of Construction Technology	3
CNST 115*	Construction Calculators & Estimating	1
CARP 120*	Carpentry Basics and Rough-in Framing	6
CARP 150*	Beginning Carpentry Practicum (90 hrs)	<u>3</u>
Subtotal		16

SPRING SEMESTER 1

Course No.	Title	Credits
COMM 135	Interpersonal Communication	3
ENGL 119**or higher		3-4
CNST 120*	Introduction to Site Layout & Concrete Basics	3
CNST 150*	Construction Site Safety	2
CARP 130*	Exterior Finishing, Stair Construction, and Metal Stud Framing	4
CARP 152*	Intermediate Carpentry Practicum (90 Hours)	<u>3</u>
Subtotal		18-19

SUMMER SEMESTER

Course No.	Title	Credits
CARP 240*	Summer Carpentry Internship (135-270 hrs)	<u>3-6</u>
Subtotal		3-6

FALL SEMESTER 2

Course No.	Title	Credits
DRFT 156	Introduction to CAD	3
WELD 151*	Welding for Carpenters	2
CARP 230*	Advanced Roof, Floor, Wall, and Stair Systems	6
CARP 250*	Advanced Carpentry Practicum (90 hrs)	<u>3</u>
Subtotal		14

SPRING SEMESTER 2

Course No.	Title	Credits
BUS 106	Introduction to Business	3
CNST 220*	Advanced Concrete Working	5
CARP 220*	Interior Finishing	5
CARP 252*	Capstone Carpentry Practicum (120 hrs)	4
Subtotal		17

Total Program Credits - 68-72~

~ 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.

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

CARPENTRY

CERTIFICATE OF APPLIED SCIENCE DEGREE

(NEW PROGRAM approved by BOR May, 2008)

Advisor: Patrick Schoenen

MSU-Great Falls COT carpentry program curriculum is aligned and accredited by the Center for Construction Education and Research (NCCER). The training material is all standardized, competency-based, and task driven. The curricula are developed by the industry for the industry. Students will have the opportunity to earn national certification through NCCER for two of the five levels of NCCER curriculum. The student then is entered into a National Registry as having proven competence at the designated level.

Outcomes: Graduates are prepared to:

- Demonstrate the communication and construction skills necessary for an entry-level residential or commercial construction job.
- Have the ability to transfer earned credits within the university system and continue their education for an advanced degree. (i.e. Associate of Applied Science or Bachelor's Degrees in Carpentry, Construction Management, Occupational Safety, Engineering, Electrical, Plumbing, etc.)
- Have gained insight as to which field of apprenticeship they may wish to choose. (i.e. carpenters, iron workers, labors, equipment operators, crane operators, electrician, plumbing, heating & A.C, sheet metal, etc.)
- Have completed experience which may reduce their on-the-job apprenticeship requirements.

The certificate program includes courses covering the basic fundamentals of:

- Safety, hand and power tools, rigging.
- OSHA's 10 hour safety certification,
- Floor systems; wall, ceiling, and roof framing; windows and doors; basic stair layout; exterior finishes; roof applications; barriers, and metal studs.
- Concrete and its uses, foundations and flat work along with basic site layout protocol.
- Estimating and reading plans.

The program will take advantage of internship opportunities along with hands-on projects.

Students entering the program should have good manual dexterity skills, good physical condition, like to work outdoors in changing weather conditions and be comfortable working at varying heights.

Estimated Resident Program Cost:

Tuition and Fees	\$4499
Application Fee	\$30
Lab Fees	\$60
Books/Supplies	\$750
TOTAL:	\$5039

FALL SEMESTER

<u>Course No.</u>	<u>Title</u>	<u>Credits</u>
MATH 100	Math for the Trades	3
CNST 100*	Fundamentals of Construction Technology	3
CNST 115*	Construction Calculators & Estimating	1
CARP 120*	Carpentry Basics and Rough-in Framing	6
CARP 150*	Beginning Carpentry Practicum (90 hrs)	3
Subtotal		16

SPRING SEMESTER

<u>Course No.</u>	<u>Title</u>	<u>Credits</u>
COMM 135	Interpersonal Comm.	3
ENGL 119**or higher		3-4
CNST 120*	Introduction to Site Layout & Concrete Basics	3
CNST 150*	Construction Site Safety	2
CARP 130*	Exterior Finishing, Stair Construction, and Metal Stud Framing	4
CARP 152*	Intermediate Carpentry Practicum (90 Hours)	3
Subtotal		18-19

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.

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

CARPENTRY

NEW COURSE DESCRIPTIONS

CARPENTRY DESCRIPTIONS

CARP 120 CARPENTRY BASICS & ROUGH-IN FRAMING (F)
Credits: 6 59 hours lecture/75 hours shop
Co-Requisites: CNST 110, CNST 115, CARP 150

This course covers eight different module topics. It starts by introducing the carpentry trade, including history, career opportunities, and requirements. The course includes study and practice required for framing a simple structure. Specific topics are building materials, fasteners and adhesives, hand and power tools, reading plans & elevations, floor systems, wall and ceiling framing, roof framing and windows and exterior doors.

CARP 130 EXTERIOR FINISHING, STAIR CONSTRUCTION & METAL STUD FRAMING (S)
Credits: 4 37 hours lecture/70.5 hours shop
Co-Requisites: CNST 120, CNST 150, CARP 152
Pre-Requisites: CNST 110, CNST 115, CARP 120, CARP 150

Introduces students to materials and methods for thermal & moisture barriers, sheathing, exterior siding, stairs, and roofing. Students will layout and build a simple stair system as well as a metal stud wall with door and window openings.

CARP 150 BEGINNING CARPENTRY PRACTICUM (F)
Credits: 3 90 hours shop
Co-Requisites: CNST 110, CNST 115, CARP 120

Provides hands-on experience in which the student applies, with minimal supervision the basic skills and knowledge presented thus far in the NCCER Carpentry Program. This course is designed as a practical task-oriented application utilizing the basic skills covered in prerequisites as well as in parts of CARP 130.

CARP 152 INTERMEDIATE CARPENTRY PRACTICUM (S)
Credits: 3 90 hours shop
Co-Requisites: CNST 120, CNST 150, CARP 130
Pre-Requisites: CNST 110, CNST 115, CARP 120, CARP 150

Provides hands-on experience in which the student applies with supervision the basic skills and knowledge presented thus far in the NCCER Carpentry Program. The course is designed as a practical task-oriented application. The course will emphasize basic application in the area of interior and exterior finishing.

CARP 220 INTERIOR FINISHING (S)
Credits: 5 32 hours lecture/85.5 hours shop
Co-Requisites: CNST 220, CARP 252
Pre-Requisites: WELD 151, CARP 230, CARP 250

This course studies interior building materials. Course material ranges from installation techniques for interior trim, countertop, base & wall cabinets, suspended ceiling, wood & metal doors.

CARP 230 ADVANCED ROOF, FLOOR, WALL & STAIR SYSTEMS (F)
Credits: 6 62 hours lecture/43 hours shop
Co-Requisites: WELD 151, CARP 250
Pre-Requisites: CNST 120, CNST 150, CARP 130, CARP 152

This class takes off from where CARP 120 & 130 finished. Students will elevate their study in various installation methods and materials for various roofing, & flooring systems. Under wall systems students will study interior & exterior wall construction methods for residential and commercial structures. To add to the student's knowledge learned in CARP 130, Stair Construction & Metal stud framing, students will study staircase construction and metal building construction.

CARP 240 SUMMER CARPENTRY INTERNSHIP (SU)**Credits:** 3-6 135-270 hours**Pre-Requisites:** CNST 120, CNST 150, CARP 130, CARP 152

An internship is individually based. The intent is to allow students who have met the prerequisites an opportunity to experience work out in the industry before committing to full-time employment. Some students may use it as an opportunity to get employment within a company while many students will use it as a means of broadening their perspective as to types of construction work available and the daily operations of companies.

CARP 250 ADVANCED CARPENTRY PRACTICUM (F)**Credits:** 3 90 hours shop**Co-Requisites:** WELD 151, CARP 230**Pre-Requisites:** CNST 120, CNST 150, CARP 130, CARP 152

Provides students the opportunity to practice skills they have acquired in the entire carpentry program. It includes task-oriented projects in which students can apply many of the skills and knowledge that they have been presented throughout the NCCER Carpentry Program. This course is designed as a practical task-oriented exercise utilizing a variety of the skills covered in all the NCCER Modules and provides the necessary time for taking the Performance assessments' for certification under NCCER.

CARP 252 CAPSTONE CARPENTRY PRACTICUM (S)**Credits:** 4 120 hours shop**Co-Requisites:** CNST 220, CARP 250**Pre-Requisites:** WELD 151, CARP 230, CARP 250

The course is designed as a practical task-oriented application utilizing the ADVANCED skills learned in CARP 220 & 230. The course will emphasize advanced application in the area of exterior and interior finishing. This course provides hands-on experience in which the students take the Performance Assessments for certification under NCCER with MINIMAL supervision using the skills and knowledge presented in the NCCER Carpentry program.

CONSTRUCTION DESCRIPTIONS

CNST 100 FUNDAMENTALS OF CONSTRUCTION TECHNOLOGY (F)**Credits:** 3 47.5 hours lecture**Co-Requisites:** CNST 115, CARP 120, CARP 150

This course is the Core Curriculum for Introductory Craft Skills under the National Center for Construction Education (NCCER). This course is NCCER's basic course for all construction, maintenance and pipeline occupations. This course covers basic safety obligations of workers, supervisors and managers; reviews the role of company policies and OSHA regulations; introduces trainees to hand and power tools widely used in the construction industry, and their proper uses. Students will also become familiarized with basic blueprint terms, components and symbols.

CNST 115 CONSTRUCTION CALCULATORS & ESTIMATING (F)**Credits:** 1**Co-Requisites:** CNST 110, CARP 120, CARP 150

This course is specific to the uses of calculator specific to construction. (I.e. Master Pro) for task such as weight, volume, rises/run, diagonals, slopes etc. Also included is basic estimating specific to the carpentry field.

CNST 120 INTRODUCTION TO SITE LAYOUT & CONCRETE BASICS (S)**Credits:** 3 35 hours lecture/37.5 hours shop**Co-Requisites:** CNST 150, CARP 130, CARP 152**Pre-Requisites:** CNST 110, CNST 115, CARP 120, CARP 150

A study of the various techniques for concrete utilization in residential and light construction from the theoretical concepts of hydration to the practical experience of verifying site conditions; interpreting data used to establish conditions of level, square, plumb, parallel; and perpendicular; tying steel; and placing and finishing a concrete slab.

CNST 150 CONSTRUCTION SITE SAFETY**(S)****Credits:** 2 24 hours lecture/5 hours shop**Co-Requisites:** CNST 120, CARP 130, CARP 152**Pre-Requisites:** CNST 110, CNST 115, CARP 120, CARP 150

Following the NCCER Core Curriculum unit, the student will cover the basics of slings, hitches, rigging hardware, sling stress, hoist and rigging operations and practices. It also includes industry standard OSHA 10-hour construction training. Students who successfully complete the OSHA training will earn a course completion card recognized and generally required by most construction sites.

CNST 220 ADVANCED CONCRETE WORKING**(S)****Credits:** 5 73.5 hours shop/49 hours lecture**Co-Requisites:** CARP 220, CARP 252**Pre-Requisites:** WELD 151, CARP 230, CARP 250

Provides basic knowledge of concrete materials and tools and provides hands-on experience in which the student applies with supervision those basic skills and knowledge presented in the area of concrete. The course is designed as a practical task-orientated application utilizing the basic skills learned in CNST 120. The course will emphasize the advanced application in the area of concrete foundations, flatwork, forms, reinforcing, handling, and placing concrete.

WELDING DESCRIPTIONS**WELD 151 WELDING FOR CARPENTERS****(F)****Credits:** 2**Co-Requisites:** CARP 230, CARP 250**Pre-Requisites:** CNST 120, CNST 150, CARP 130, CARP 152

This course is specifically designed to teach students the basic welding methods that a carpenter might face (i.e. steel studs). Students will cover basic welding processes used in the trade applications.

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HEALTH INFORMATION CODING SPECIALIST

CERTIFICATE OF APPLIED SCIENCE DEGREE

(Curriculum changes to program approved by BOR May, 2008 – refer to Page 57 of the 2008-2009 Catalog)

Advisor: Lynn Ward

This program is offered completely on-line.

Health information coding is the transformation of verbal descriptions of diseases, injuries and procedures into alphanumeric designations used for data retrieval, analysis, and claims processing.

Upon completion of the Certificate in Health Information Coding Specialist, students will be prepared to begin a successful career as a health information coding specialist. Students are prepared to sit for the National Certified Coding Associate exam administered through AHIMA. www.ahima.org

Outcomes: Graduates are prepared to:

- Analyze health records and assign appropriate codes according to national and international guidelines.
- Research and rely on knowledge in correct medical terminology, anatomy and physiology and disease processes to determine the correct codes and sequences.
- Use computer applications and software specific to the coding environment.
- Maintain confidentiality of health information and adhere to regulations pertaining to privacy laws and guidelines.
- Professionally interact in the healthcare environment with healthcare providers, patient/clients and the public.

The Health Information Coding Specialist Certificate program is approved through AHIMA and the Assembly on Education.

Students must complete all prerequisite coursework and meet for advisement with the HICS program director (via phone) before acceptance into the program.

Estimated Resident Program Cost:

Tuition and Fees.....	\$4499
Application Fee.....	30
Lab Fees.....	70
Books/Supplies.....	<u>1850</u>
TOTAL.....	<u>\$6499</u>

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

NOTE: Curriculum is based on a full time schedule.

FALL SEMESTER

<u>Course No.</u>	<u>Title</u>	<u>Credits</u>
AH 101	Healthcare Delivery in the US	2+
AH 185	Basic Medical Terminology	3+
AH 194	Basic Pharmaceutical	1+
BIO 127	A&P I for nonclinical Majors	4+
CIT 110	Introduction to Computers	3+
MATH 103**	Introductory Algebra or higher	4+
	Subtotal	17

SPRING SEMESTER

<u>Course No.</u>	<u>Title</u>	<u>Credits</u>
COMM 135	Interpersonal Comm. OR	
PSY 101	General Psychology OR	
SOC 111	Introduction to Sociology	3+
AH 201*	Medical Science	3+
ENGL 124**	Business and Prof Comm.	3+
HI 132*	Health Data Content & Structure	3+
HI 236*	ICD Coding	3+
HI 237*	CPT Coding	3+
	Subtotal	18

SUMMER SEMESTER

<u>Course No.</u>	<u>Title</u>	<u>Credits</u>
OO 111*	Fundamentals of Insurance	4+
HI 256*	Intermediate ICD Coding	3+
HI 257*	Intermediate CPT Coding	3+
HI 270*	Professional Practice Experience	2+
	Subtotal	12

TOTAL PROGRAM CREDITS – 47~

Recommended Course

<u>Course No.</u>	<u>Title</u>	<u>Credits</u>
HI 116	CCA Preparation	1

~ 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 co/prerequisites needed
| ** Placement in course(s) is determined by placement assessment

PHYSICAL THERAPIST ASSISTANT ASSOCIATE OF APPLIED SCIENCE DEGREE

(Curriculum changes to program approved by BOR May, 2008 – refer to Page 67 of the 2008-2009 Catalog)

Advisor: Andrea Johnson

The formal portion of the Physical Therapist Assistant (PTA) program begins fall semester with a limited enrollment of 16 students. There are 29 credits of pre-requisite coursework which may take one year or longer to complete. All pre-requisite coursework must be completed with a "C-" or better. The student must apply for acceptance into the formal portion of the PTA program and be accepted. A grade of "C-" or "pass" is required for all coursework within the PTA program after formal acceptance.

The formal portion of the PTA program is challenging and consists of fall, spring, and summer semesters; taking one full year. This time includes built-in clinical experiences which may or may not be in the Great Falls area. Upon completion of the PTA program, the graduate is prepared to take the National Physical Therapist Assistant Examination (NPTAE) provided by the Federation of State Boards of Physical Therapy and must receive a passing score in order to become a licensed PTA. Licensure is required to practice as a PTA in Montana and is overseen by the State of Montana Board of Physical Therapy Examiners.

The PTA program is designed to graduate individuals who are knowledgeable, competent, self-assured, adaptable, and service-oriented patient/client care providers performing their duties within the ethical and legal guidelines of the physical therapy profession as an entry-level PTA having successfully passed the NPTAE. Graduates are prepared to work in a variety of healthcare settings including acute care, outpatient, rehabilitation, and extended care.

The Montana State University - Great Falls College of Technology's Physical Therapist Assistant program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE).

Outcomes - Graduates are prepared to:

- Demonstrate theoretical knowledge, patient care skills, ethical guidelines, and affective qualities related to physical therapy practice;
- Demonstrate safe, effective, moral, and ethical behavior in the realm of physical therapy practice;
- Skillfully integrate related concepts and theories of liberal arts and basic science in the realm of physical therapy practice;
- Utilize effective communication skills, critical thinking, and planning skills in the realm of physical therapy practice; and
- Display a commitment to lifelong learning, ongoing professional development, and excellence in the realm of physical therapy practice.

Estimated Resident Program Cost:

Tuition and Fees	\$5999
Application Fee	\$30
Lab Fees	\$340
Books/Supplies	\$2000
TOTAL:	\$8369

Updated PTA Curriculum continued on the next page

PHYSICAL THERAPIST ASSISTANT ASSOCIATE OF APPLIED SCIENCE DEGREE

(Continued...)

Prior to fall admission into the PTA program students must:

- Have completed high school physics AND chemistry (students without high school coursework in these areas should consult the PTA Program Director as to the appropriate college course(s) needed to meet this requirement);
- Have completed a minimum of 40 hours of observation at physical therapy clinics/ facilities with a licensed PT or PTA in at least 2 different settings (observation forms available from Program Director);
- Write and submit a short reflective paper detailing their experiences at clinical observations (criteria and rubric for this paper is provided to the student);
- Show proof of computer literacy (students without high school coursework should consult Program Director as to the appropriate college course(s) needed to meet this requirement);
- Earn a Grade Point Average (GPA) of 2.5 high on pre-requisite coursework.
- Earn a grade of "C-" or higher in all pre-requisite coursework; and

Provide three letters of reference (sources of each reference is specified, rubric provided to the student, consult the Program Director).

PRE-REQUISITE COURSES

Course No.	Title	Credits
AH 185	Basic Medical Terminology	3+
SOC 111	Introduction to Sociology	3+
BIO 213**	Anatomy & Phys I Lecture/Lab	4+
BIO 214*	Anatomy & Phys II Lecture/Lab	4+
COMM 135	Interpersonal Communication	3+
ENGL 121**	Composition I	3+
MATH 161**	Algebra w/ Science Applications	3+
PSY 101	General Psychology	3+
PSY 109	Lifespan Development	3+
PTA 105	Introduction to PTA	<u>3±</u>
	Subtotal	32

PROGRAM REQUIREMENTS AFTER FORMAL ACCEPTANCE

FALL SEMESTER

Course No.	Title	Credits
PTA 101*	Physical Therapist Assisting I/Lab	5+
PTA 205*	Anatomy & Kinesiology for the PTA/Lab	6+
PTA 206*	Pathophysiology for the PTA	3+
PTA 210*	Clinical Experience I (4-week)	3+
PTA 207*	Nutrition and Wellness for the PTA	<u>1±</u>
	Subtotal	18

SPRING SEMESTER

Course No.	Title	Credits
PTA 201*	Physical Therapist Assisting II/Lab	5+
PTA 213*	Neurorehabilitation for the PTA/Lab	7+
PTA 215*	Introduction to Orthopedics for the PTA/Lab	4+
PTA 220*	Clinical Experience II (4-week)	<u>3±</u>
	Subtotal	19

SUMMER SEMESTER

Course No.	Title	Credits
PTA 225*	PTA Seminar	3+
PTA 230*	Clinical Experience III 8-week)	<u>5±</u>
	Subtotal	8

TOTAL PROGRAM CREDITS – 77~

~Many students need preliminary math, English, and biology 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 schedules.

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

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PHYSICAL THERAPIST ASSISTANT

NEW COURSE DESCRIPTIONS

PTA 101 PHYSICAL THERAPIST ASSISTING I/LAB (F)
Credits: 5 (3 Lecture, 2 Lab) 45 Lecture Hours / 60 Lab Hours

This is the first of two sequential skills and procedures courses in the PTA program. The following topics are covered: basic principles and procedures of physical therapy; basic care skills and application techniques; use of assistive devices; architectural and environment barriers; introduction to range of motion (ROM); introduction to pain theories, conditions, and assessment; and physiological principles, indications/contraindications, and application of physical agents discussed in lecture.

PTA 105 INTRODUCTION TO PHYSICAL THERAPIST ASSISTING (F, S, SU)
Credits: 3 45 Lecture Hours

This course is designed to give the student an overview of the Physical Therapy profession by providing a historical perspective, as well as, an understanding of its philosophy in relation to the professional organization; an overview of the roles of the Physical Therapy staff members in the clinical setting, as well as, members of the health care team in various delivery systems; development of interpersonal communication skills relating to the profession; and an understanding of the commitment of the graduate to continued personal and professional development. This course provides an overview of ethical, legal, and psychosocial issues relating to the role of the PTA in health care delivery. It includes such topics as the implications of chronic illness; the aging process and death/dying; client's role in health management; financing of physical therapy; regulations governing PTAs; code of ethics; scope of PT and PTA practice; and the PTA's role in departmental administration.

PTA 201 PHYSICAL THERAPIST ASSISTING II/LAB (S)
Credits: 5 (3 Lecture, 2 Lab) 45 Lecture Hours / 60 Lab Hours

This is the second of the two sequential skills and procedures courses in the PTA program. The following topics are covered: theoretical principles and application of chest physical therapy, biofeedback, topical applications, electrotherapy, ultrasound, and ultraviolet; procedure and application of cervical and lumbar traction; gait analysis and training; theory and application of massage; measurements and principles of therapeutic exercise.

PTA 205 ANATOMY AND KINESIOLOGY FOR THE PHYSICAL THERAPIST ASSISTANT/LAB (F)
Credits: 6 (4 Lecture, 2 Lab) 60 Lecture Hours / 60 Lab Hours

This course is designed to provide the student with an understanding of: the human musculoskeletal system relative in the biomechanical elements of normal and abnormal human motion; physiology of exercise and its effects on movement and daily activity; and osteology and arthrology in relation to muscle action and joint mechanics. The study of goniometry, manual muscle testing, joint mobilization and athletic taping will also be presented.

PTA 206 PATHOPHYSIOLOGY FOR THE PHYSICAL THERAPIST ASSISTANT (F)
Credits: 3 45 Lecture Hours

This course introduces the student to the pathophysiology; etiology; clinical signs and symptoms; and management of selected pathological and injury-related disorders treated in physical therapy. Other pathologies discussed include: diabetes mellitus, immune system disorders, neoplasms, and disorders related to pregnancy. The course includes student presentations on disorders pertinent to physical therapy.

PTA 207 NUTRITION AND WELLNESS FOR THE PTA (F)
Credits: 1 15 Lecture Hours

This course introduces the physical therapist assistant student to current health practices and theory of nutrition and wellness. Health and assessment topics may include: body composition, cardiovascular fitness, injury prevention and pain, infectious disease, stress, weight management and nutrition for health, establishing physical fitness goals, planning for physical strength improvement and/or maintenance, lifestyle choices and assess how those choices may influence work situations including interactions with patients, and other dimensions of wellness.

PTA 210 CLINICAL EXPERIENCE I (F)
Credits: 3 180 clinical hours, 4 weeks in length

The purpose of this clinical affiliation is to provide the student with an opportunity to apply skills and techniques learned in PTA 105, 101, 205, 206, and 207 under the appropriate supervision of the clinical instructor. This course will include a four-week clinical rotation at an approved site.

PTA 213 NEUROREHABILITATION FOR THE PHYSICAL THERAPIST ASSISTANT/LAB (S)
Credits: 7 (6 Lecture, 1 Lab) 90 Lecture Hours / 30 Lab Hours

This course is an introduction to neuroanatomy and neurophysiology in relationship to neurological pathologies of the brain and spinal cord commonly treated by physical therapy. Through this course the student is also introduced to neurological development: normal vs. abnormal - birth through adult; disease processes and outcomes; and neurophysiological routines used for treatment. Principles and treatment of specific disabilities are also presented.

PTA 215 INTRODUCTION TO ORTHOPEDICS FOR THE PHYSICAL THERAPIST ASSISTANT/LAB (S)
Credits: 4 (3 Lecture, 1 Lab) 45 Lecture Hours / 30 Lab Hours

This course introduces students to pediatric and adult musculoskeletal pathologies and management of orthopedic and surgical problems commonly seen by physical therapy.

Course content will include:

1. Basic biomechanics and mechanisms of orthopedic injuries and diseases
2. Survey of surgical repair with emphasis on rehabilitation
3. Evaluation techniques and treatments used by physical therapists
4. theoretical application of therapeutic exercise programs and equipment commonly used for treatment of various orthopedic conditions and surgical procedures, and
5. Orthopedic pediatric treatment routines.

PTA 220 CLINICAL EXPERIENCE II (S)
Credits: 3 180 Clinical Hours / 4 weeks in length

The students will continue to build on their clinical experiences from PTA 210 and previous PTA course work. This will consist of a four-week clinical rotation at an approved site.

PTA 225 PHYSICAL THERAPIST ASSISTING SEMINAR (SU)
Credits: 3 45 Lecture Hours

This concentrated course is designed to integrate skills and techniques from previous clinical experiences and from the course work presented throughout the PTA program. It focuses on presentation of comprehensive treatment plans utilizing all treatment skills and techniques learned during the previous semesters. The students will be expected to provide written reports including complete patient information and treatment plans and then present this information in the form of a case study/project. Research and current issues are discussed and presented. Students will be required to relate sociological, physical, and psychological aspects of illness and injury to their projects. A cumulative exam of the PTA curriculum, as well, as preparation for the state's licensure exam is covered in this course. Student questions and concerns are also addressed.

PTA 230 CLINICAL EXPERIENCE III (SU)
Credits: 5 300 Clinical Hours / 8 weeks in length

This is the third of three full-time affiliations/clinical experiences during which the student develops proficiency in physical therapy procedures, understanding of clinical responsibilities and supervisory relationships with a minimum competence necessary to graduate as an entry level physical therapist assistant and become an active participant of the health care team. This course will include an eight-week clinical rotation at an approved site.

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PROGRAM COSTS

(Reflects additional program cost information after the 2008-2009 Catalog went into print)

ASSOCIATE OF ARTS (refer to page 36 in the 2008-2009 Catalog)

Tuition and Fees.....	\$7498.40
Application Fee.....	30
Lab Fees.....	60
Books.....	750
Total.....	\$8338.40

ASSOCIATE OF SCIENCE (refer to page 37 in the 2008-2009 Catalog)

Tuition and Fees.....	\$7498.40
Application Fee.....	30
Lab Fees.....	60
Books.....	750
Total.....	\$8338.40

MUS CORE (refer to page 35 in the 2008-2009 Catalog)

Tuition and Fees.....	\$2999.36
Application Fee.....	30
Lab Fees.....	60
Books.....	750
Total.....	\$3389.36

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Respiratory Care

Associate of Applied Science Degree

Advisor: Leonard Bates

Updated RT Curriculum

Pre-Respiratory Courses and Skills

Background in basic science and math is essential to prepare applicants to succeed in the RT program. Prior to admission to the RT program students must have completed high school chemistry and demonstrate computer literacy. (Students without high school courses should consult the RT Program Director about the appropriate college coursework to meet this requirement.)

Prior to formal program acceptance, the applicant must successfully complete all of the program prerequisites with a minimum grade of "C-".

Prerequisite Courses

Course	No.	Title	Credits
BIO	213**	Anatomy & Physiology I/Lab	4†
ENGL	121**	Composition I	3†
MATH	161**	College Algebra w/ Science Applications	3†
COMM	135	Interpersonal Communication OR	
PSY	101	General Psychology OR	
PSY	109	Lifespan Development	3†
Subtotal			13

The courses below are to be taken in the order that they are listed. Admission into the RT program and completion of the previous semester are required.

Program Course Requirements after Formal Acceptance

A grade of "C-" or above must be earned in all required courses to continue in and graduate from the program. CPR is a prerequisite for entrance into the first clinical experience. Each student is required to sign a clinical contract defining their professional responsibilities and behavior and must complete two to four weeks of clinic outside of Great Falls during the summer semester.

Fall Semester

Course	No.	Title	Credits
BIO	214*	Anatomy & Physiology II/Lab	4†
RC	150	Respiratory Care	2†
RC	155	Respiratory Physiology	3†
RC	170	Resp Tech & Procedures I	5†
Subtotal			14

Spring Semester

Course	No.	Title	Credits
RC	140*	Resp Care Clinic I	4†
RC	171*	Resp Techn & Procedures II	5†
RC	180*	Ventilator Management	2†
RC	255*	Pulmonary Assessment	3†
Subtotal			14

Summer Semester

Course	No.	Title	Credits
RC	141*	Resp Care Clinic II	4†
RC	260*	Neonatal Respiratory Care	3†
Subtotal			7

Fall Semester

Course	No.	Title	Credits
EMS	145*	ACLS Preparation	1†
RC	240*	Resp Care Clinic III	5†
RC	245*	Resp Care Clinical Seminar I	1†
RC	250*	Hemodynamic Monitoring	3†
RC	275*	Pulmonary Disease	2†
Subtotal			12

Spring Semester

Course	No.	Title	Credits
AH	120	Intravenous Therapy	1†
EMS	146	Pediatric Advanced Life Support	1†
RC	241*	Resp Care Clinic IV	5†
RC	246*	Resp Care Clinical Seminar II	1†
RC	265*	Resp Care in Alternative Sites	1†
RC	273*	Pulmonary Function Testing	1†
RC	280*	Supervisory Management	2†
Subtotal			12

Total Program Credits - 72~

~ Many students need preliminary math, English, and biology 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 schedules.

† A grade of "C-" or above required for graduation

* Indicates prerequisites needed

** Placement in course(s) is determined by placement assessment

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