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U 133T Respiratory Care Pharmacology 3 cr. Offered autumn. Prereq., acceptance into the Respiratory Care Program or consent of instr. Principles of basic chemistry introduced with an application to pharmacology as related to the pulmonary system. Cardiovascular and related pharmacology studied in preparation for ACLS and ventilator management.

U 150T Respiratory Care Laboratory I 1 cr. Offered autumn. Prereq., acceptance into the Respiratory Care program. Basic clinical competencies taught in RES 131T are studied in a laboratory setting. Peer and instructor review included. Students earn their BLS certification.

U 231T Respiratory Critical Care 4 cr. Offered spring. Prereq., RES 120T, 129T, 131T, 133T, 150T. Continuation of RES 131T. Physiology, indication, contraindications, and application of mechanical ventilation. Emphasis on patient assessment, monitoring,, stabilization and weaning during assisted pressure breathing. Analysis of the various modes of ventilation, including optimizing the patient-ventilator interface in the adult through various advanced airway techniques. Rhythm strip interpretation in preparation for ACLS.

U 232T Respiratory Pathology and Disease 3 cr. Offered spring. Prereq., RES 120T, 129T, 131T, 133T, 150T. Special lectures in medicine and disease as related to the cardiopulmonary system. Emphasis on recognition of signs and symptoms of disease and implications for treatment through the study of selected case studies. Neonatal and pediatric diseases included.

U 235T Cardiopulmonary Anatomy and Physiology 3 cr. Offered spring. Prereq., RES 120T, 129T, 131T, 133T, 150T or consent of instr. Principles of physiologic chemistry are introduced and applied to the macro and micro anatomy of the cardiopulmonary system with a focus on structure and function. Application made to pathology and assessment of patients receiving mechanical ventilation.

U 241T Perinatal and Pediatric Respiratory Care 3 cr. Offered autumn. Prereq., RES 260T, 265T. Study of perinatal and pediatric respiratory care with emphasis on assessment, resuscitation and mechanical ventilation of the neonate and pediatric patient. The theory of Neonatal Resuscitations (NRP) will be presented.

U 242T Respiratory Management 1 cr. Offered autumn. Prereq., RES 260T, 265T. Study of respiratory care departmental organization and administration procedures.

U 250T Respiratory Care Laboratory II 2 cr. Offered spring. Prereq., RES 120T, 129T, 131T, 133T, 150T. A continuation of RES 150T with emphasis on adult critical care. Clinical competencies taught in RES 231T and RES 235T are studied. Peer and instructor review included.

U 252T Respiratory Care Review 2 cr. Offered autumn. Prereq., RES 260T, 265T. A review of respiratory care in preparation for credentialing exams. Students must take an Entry Level Self-Assessment Exam, a Written Registry Self- Assessment Exam, and a Clinical Simulation Self-Assessment Exam.

U 255T Clinical Experience I 5 cr. Offered spring. Prereq., RES 120T, 129T, 131T, 133T, 150T. Emphasis on the student directly performing basic clinical skills in a patient care setting to include hospitals, home care, and pulmonary function laboratories. Students also participate in physician rounds.

U 260T Respiratory Care Laboratory III 1 cr. Offered summer. Prereq., RES 231T, 232T, 235T, 250T, 255T. Peer and instructor review are included. Students will be Advanced Cardiac Life Support (ACLS) and Pediatric Advance Life Support (PALS) certified at the end of this class.

U 265T Clinical Experience II 6 cr. Offered summer. Prereq., RES 231T, 232T, 235T, 250T, 255T. Continuation of clinical skills learned in RES 255T. Introduction to adult critical areas along with sleep and cardiac diagnostics. Students also participate in physician rounds.

U 270T Respiratory Care Laboratory IV 2 cr. Offered autumn. Prereq., RES 260T, 265T. A continuation of RES 260T with an emphasis on neonatal and pediatric critical care. Clinical competencies introduced in RES 241T are studied. Peer and instructor review are included. Students will be Neonatal Resuscitation (NRP) certified at the completion of the class.

U 275T Clinical Experience III 7 cr. Offered autumn. Prereq., RES 260T, 265T, 270T. Continuation of RES 265T with critical care of the adult. Neonatal and pediatric critical care experiences also emphasized along with teaching skills in selected areas. Students also participate in physician rounds.

U 295T Special Topics 1-6 cr. (R-6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

Surgical Technology (SUR)

U 101 Introduction to Safe Patient Care 3 cr. Offered spring. Prereq., admission to the 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.

U 115 Surgical Procedures Lab I 2 cr. Offered spring. Prereq., admission to the program. Orientation to the physical organization of the central processing department with emphasis on documentation, sterilization, and preparation of instruments/supplies.

U 154 Surgical Pharmacology 3 cr. Offered spring. Prereq., admission to the program, MAT 005. Basic overview of the medications that are commonly used before, during and after a surgical procedure.

U 164 Microbiology for the Surgical Technologist 3 cr. Offered spring. Prereq., admission to the program basics of microbiology and techniques for prevention and control of disease before, during, and after surgery.

U 200 Operating Room Techniques 5 cr. Offered autumn. Prereq., completion of all second semester courses. 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 century st operating room.

U 201 Surgical Procedures I 4 cr. Offered autumn. Prereq., completion of all second semester courses. A study of surgical procedures following the patient through the preoperative, intraoperative, and post-operative stages of specific surgical specialties.

U 202 Surgical Procedures II 5 cr. Offered spring. Prereq., completion of all third semester courses. A study of surgical procedures following the patient through the preoperative, intraoperative, and postoperative stages of CV/thoracic, orthopedic, neurological, and ophthalmic specialties.

U 215 Surgical Procedures Lab II 2 cr. Offered autumn. Prereq., completion of all second semester courses. Orientation to the physical organization of the surgical suite, demonstration and return demonstration of perioperative competencies in the campus lab.

U 250 Surgical Lab Practicum I 4 cr. Offered autumn. Prereq., completion of all second semester courses and successful completion of SUR 202T. Perioperative experience in the minor surgical procedure role through a supervised clinical hospital rotation.

U 251 Surgical Lab Practicum II 5 cr. Offered spring. Prereq., completion of all third semester courses. Perioperative experience in the major surgical procedure role through a supervised clinical hospital rotation.

U MED 280E (SUR 204E) Ethics in Health Professions 3 cr. Offered autumn. Ethical decision-making tools for addressing common ethical issues in the health professions.

U 298 Surgical Internship 5 cr. Offered spring. Prereq., completion of all third semester courses, SUR 205T, SUR 206T. Capstone experience in the perioperative role in preparation for initial employment, increasing occupational awareness and professionalism. Students take call for emergency surgeries alongside experienced hospital staff.

Department of Industrial Technology

Alan P. Fugleberg, Associate Dean & Chair

The mission of the Department of Industrial Technology is to provide the regional workforce with credentialed, skilled, and competent entry-level technicians, and to be responsive to emerging workforce needs. The Department encourages the development of teamwork and interpersonal communication skills required in the workplace. It also stresses the importance of a strong work ethic and the value of continuing education and lifelong learning. The instruction for the Certificate of Applied Science and A.A.S. degree programs are primarily delivered at the West Campus at 3639 South Avenue West. Some instruction is delivered at the East Campus or Mountain Campus.

Special Certificate and Degree Requirements

The general education requirements are included in the following courses of study. Refer to the Academic Policies and Procedures section of this catalog for the specific requirements.

Course Fees, Tools, and Supplies

Courses in all programs in the Department of Industrial Technology include additional course fees and require special tools and supplies for which students must pay. To obtain a complete listing of these additional items and costs, contact the program directors.

Building Maintenance-Certificate of Applied Science

The mission of the Building Maintenance Program is to provide the regional workforce with credentialed, skilled and competent building maintenance professionals, and to be responsive to emerging workforce needs.

Students in the Building Maintenance program are trained as building maintenance professionals who maintain commercial buildings. Subject matter in the program includes plumbing, electricity, carpentry, and heating/air conditioning. Students learn physical and electrical theories that enable them to understand building systems. In addition, they study building cleaning, landscape maintenance, pool care, computers, and boiler operation. Water treatment is discussed in both the pool and boiler courses. The program introduces current environmental and energy problems that can be reduced through efficient building operation. It also encourages resource development, teamwork and interpersonal skills required on the job.

Students are awarded a Certificate of Applied Science upon successfully completing the program. Contact John Walker, Program Director, at 406-243-7645 or john.walker@umontana.edu for more information.

Autumn and Spring Entry:

Course	A	S
BME 122T Electricity	-	5
BME 123T Carpentry	6	-
BME 127T Low Pressure Boilers	-	3
BME 128T Maintenance	6	-
BME 130T Heating and Air Conditioning	-	6
CAPP 120 (CRT 100) Introduction to Computers	2	-
M 111 (MAT 110T) Technical Mathematics	3	-
PSYX 163 (PSY 105T) Work Attitudes	-	1
WRIT 121 (WTS 115) Introduction to Technical Writing or WRIT 095 (WTS 100) Developmental Writing	-	3
Total	17	18

Carpentry - Certificate of Applied Science and A.A.S. Degree

The mission of the Carpentry Program is to provide the regional workforce with credentialed, skilled and competent carpenters and to be responsive to emerging workforce needs.

The Carpentry program provides students the opportunity to learn carpentry skills in a competency-based learning environment. Students work hand-in-hand with professional carpenters both on campus and at construction sites.

Students use hand and power tools with blueprints to build foundation forms, frame buildings, side and roof buildings, and apply roofing materials. They install windows, doors, stairs, attic vents, insulation, vapor barriers, and drywall. Students learn methods for installing trim, locksets, suspended ceilings, countertops, cabinets, and flooring. They also learn to operate forklifts, generators, compressors, and compactors.

In addition to general education courses, students in the program learn the various steps of becoming a carpenter, including safe practices. Students construct real-world projects and can earn a Certificate of Applied Science or an Associate of Applied Science degree from the University of Montana. The program often has a waiting list. Prospective students are encouraged to apply one year prior to anticipated school attendance. Contact Donnie Laughlin, Program Director, at 406-243-7692 or Donnie.Laughlin@umontana.edu for more information.

First Year	A	S
CAR 120T Framing Carpentry Lecture	4	-
CAR 121T Framing Carpentry Lab	3	-
CAR 130T Concrete Carpentry	4	-
CAR 131T Concrete Carpentry Lab	4	-
CAR 140T Exterior and Interior Finish Carpentry	-	4
CAR 141T Interior and Exterior Finish Carpentry Lab	-	5
BUS 242T Supervision	-	3
CAPP 120 (CRT 100) Introduction to Computers	2	-
M 111 (MAT 110T) Technical Mathematics	-	3
WRIT 101 (WTS 101) College Writing I	-	3
Total	17	18

Successful completion of the courses listed above results in the award of a Certificate of Applied Science in Carpentry.

Second Year	A	S
CAR 220T Advanced Carpentry Lecture	-	4
CAR 221T Advanced Carpentry Lab	-	3
CAR 230T Building Management	3	-
CAR 231T Building Management Lab	3	-
CAR 236T Building for Solar Energy	3	-
CAR 240T Alternative Construction Materials	3	-
CAR 241T Applied Building Practices Lab	-	6
CRT 182T Computer Aided Design & Drafting	2	-
WEL 119T Welding for Carpenters	-	2
Total	14	15

Successful completion of the first and second year courses listed above results in the awarding of an Associate of Applied Science Degree in Carpentry.

Diesel Technology- A.A.S. Degree

The mission of the Diesel Technology Program is to provide the regional workforce with credentialed, skilled and competent diesel technicians and to be responsive to emerging workforce needs.

Students in the Diesel Technology program train to be diesel mechanics that repair diesel-powered trucks and heavy equipment. Students study hydraulics, electrical systems, fuel systems, power trains, air conditioning, brakes and suspension, engine theory, and engine diagnosis, beginning with basic principles and proceeding to an advanced level of system technology. Along with these core courses, students take classes in welding, machining, computers, communications, and math. Credit for independent study is available to those desiring additional instruction in diesel mechanics. Students who complete the program successfully are awarded the Associate of Applied Science degree.

The program often has a waiting list. Prospective students are encouraged to apply one year prior to anticipated school attendance. Contact the Jim Headlee, Program Director, at 406-243-7648 or Jim.Headlee@umontana.edu for more information.

Autumn Entry:

First Year	A	S
CAPP 120 (CRT 100) Introduction to Computers	-	2
DET 120T Electrical Systems	-	8
DET 128T Engine Service I	4	-
DET 135T Power Trains	7	-
M 111 (MAT 110T) Technical Mathematics	-	3
MPR 115T Related Metals Processes	-	3
PSYX 161S (PSY 110S) Fundamentals of Organizational Psychology	3	-
WEL 111T Welding	2	-
Total	17	18
Second Year	A	S
DET 221T Brakes, Suspension, and Undercarriage	6	-
DET 225T Hydraulics	6	-
DET 229T Engine Service II	-	7
DET 230T Air Conditioning	-	3
DET 231T Fuel Systems	-	5
DET 235T Advanced Power Trains	-	2
TRK 106T Commercial Driver's License (CDL) Training (offered intermittently)	-	(1)
WEL 139T Welding Maintenance and Repair	2	-
WRIT 121 (WTS 115) Introduction to Technical Writing	3	-
Total	17	17-18

Power Generation

(Not available in 2009-2010)

Power generation has become a major industry within the overall diesel industry with many companies needing qualified generator technicians to service, test and repair gaseous powered systems. A University of Montana College of Technology diesel technology student may enroll in the power generation option upon successful completion of the two year diesel program, or a perspective student with industry related experience may petition to join the program. The power generation student can expect to be introduced to the concept of gas powered generators, controls, general setup/ testing and troubleshooting techniques. Generator tear-down and assembly is experienced enhancing the student's ability to understand the operation and overhaul principles of a power generator. Students also will experience operation, set-up and adjustment of typical fuel systems as found on gaseous powered generator systems including diagnostic principles. Common types of control units also will be covered with control safety of the system being the primary consideration.

Summer Session	Credits
DET 270T Diesel and Gaseous Fueled Engines	3 cr.
DET 271T Power Generators	5 cr.

Heavy Equipment Operation-Certificate of Applied Science

The mission of the Heavy Equipment Operation Program is to provide the regional workforce with credentialed, skilled and competent

heavy equipment operators and to be responsive to emerging workforce needs. The Heavy Equipment Operation Program provides students a basic understanding of fundamental machine functions and is designed to develop apprentice-level skills in the operation of heavy equipment.

Students are trained to safely and properly operate and maintain a variety of heavy equipment, including crawler-tractors, graders, scrapers, front-end loaders, excavators, backhoes, and dump trucks. Students develop an understanding of basic surveying techniques, receive extensive training in safety regulations and procedures, and learn how to handle controls precisely and judge distances accurately. The program also promotes an awareness of potential job site difficulties and allows students to gain knowledge of the work ethic expected by employers in the construction industry.

A Certificate of Applied Science is awarded after the program is successfully completed.

The program often has a waiting list for admittance. Prospective students are encouraged to apply one year prior to anticipated school attendance. Contact Rod Frost, Program Director, at 406-243-7843 or Rodney.Frost@umontana.edu for more information.

Autumn Entry	A	S
CAPP 120 (CRT 100) Introduction to Computers	2	-
HEO 140T Basic Surveying	2	-
HEO 146T Safety and Basic Controls	5	-
HEO 148T Operational Skill Building	5	-
HEO 150T Job Simulation	-	6
HEO 151T Service and Maintenance	2	-
HEO 153T Construction Theory and Specialized Equipment	-	5
M 111 (MAT 110T) Technical Mathematics	3	-
MPR 112T Related Metals Processes	-	1
PSYX 163 (PSY 105T) Work Attitudes	-	1
TRK 106T Commercial Truck Driving License Training (offered intermittently)	(1)	-
WRIT 121 (WTS 115) Introduction to Technical Writing or WRIT 095 (WTS 100) developmental Writing	-	3
Total	20	16

Recreational Power Equipment-Certificate of Applied Science

The mission of the Recreational Power Equipment Program is to provide the regional workforce with credentialed, skilled, and competent power equipment technicians and to be responsive to emerging workforce needs.

The Recreational Power Equipment Program prepares students to repair and maintain a wide variety of two-cycle and four-cycle engines and related equipment. Students work on motorcycles, ATVs, snowmobiles, outboard motors, and personal watercraft. Units of instruction include mechanical, fuel, and electrical systems. The program also encourages the development of teamwork and interpersonal skills required on the job.

For more detailed information including program costs, tool requirements, student class schedules, and course syllabi, visit: www.cte.umt.edu/departments/industrial/rec_power

Credit for independent study is available to those desiring additional instruction in recreational power equipment. Contact Mike Steffenson, Program Director, at 406-243-7693 or Michael.Steffenson@umontana.edu for more information.

Autumn Entry	A	S
CAPP 120 (CRT 100) Introduction to Computers	2	-
M 111 (MAT 110T) Technical Mathematics	-	3
MPR 115T Related Metals Processes	3	-
PSYX 163 (PSY 105T) Work Attitudes	-	1
SET 160T Basic Electricity	3	-
SET 176T Motorcycle/ATV Engines, Suspension, and Chassis	3	-
SET 177T Motorcycle/ATV Electrical and Fuel Systems	4	-
SET 178T Marine Electrical and Fuel Systems	-	4
SET 179T Marine Powerheads and Lower Units	-	6
SET 180T Snowmobile Maintenance and Repair I	2	-
SET 181T Snowmobile Maintenance and Repair II	-	2
SET 182T Computer Applications for Motor Sports	-	1
WRIT 121 (WTS 115) Technical Writing or WRIT 095 (WTS 100) Developmental Writing	-	3
Total	17	20

Welding Technology - Certificate of Applied Science and A.A.S. Degree

The mission of the Welding Technology Program is to provide the regional workforce with credentialed, skilled, and competent welders and to be responsive to emerging workforce needs. The Welding Technology Program prepares students to operate and troubleshoot a variety of welding power sources and related equipment. The program prepares students to solve problems found within the welding industry using computational skills and other problem-solving techniques essential to welding and steel fabrication. It also encourages the development of teamwork and interpersonal skills required on the job.

Welding students develop skills in six different welding processes—oxyacetylene (OAW), shielded metal arc (SMAW), gas metal arc (GMAW), flux core arc, (FCAW), submerged arc (SAW), and gas tungsten arc welding (GTAW). Beyond the development of welding skills and understanding of the process, they also study other vital skills, such as blueprint reading and layout skills, metallurgy, and gain an understanding of how heating and cooling cycles affect the properties of metals. Students also study the design of jigs and fixtures and how to incorporate these into an automated welding system.

The Welding Technology Program also has courses that provide for a solid background in the metals industry. Such courses are Computer Aided Design and Drafting (CADD), OSHA Rules and Compliance, and Related Metals Processes. Metals Fabrication I & II utilize all of the gained knowledge with an instructor approved/student designed project.

Welding technology students have the opportunity to become certified to American Welding Society Standards and receive documentation stating qualifications.

Students are awarded the Certificate of Applied Science upon successful completion of the first year of the Welding Technology program. Students are awarded the Associate of Applied Science degree upon successfully completing the two-year program.

The program often has a waiting list. Prospective students are encouraged to apply one year prior to their anticipated school attendance. For more detailed information including program costs, tool lists, class schedules, and course syllabi, visit our web site at: www.cte.umt.edu/department/industrial/welding_technology, or contact Bob Shook, Program Director, at 406-243-7644 or Bob.Shook@umontana.edu

Autumn Entry:

First Year	A	S
CAPP 120 (CRT 100) Introduction to Computers	2	-
M 111 (MAT 110T) Technical Mathematics	3	-
MPR 114T Related Metals Processes	3	-
PSYX 163 (PSY 105T) Work Attitudes	-	1
WEL 180T Welding Metallurgy	4	-
WEL 181T Shielded Metal Arc Welding (Plate) and Thermal Cutting	4	-
WEL 182T Blueprint Reading and Development	-	3
WEL 194T Layout Techniques	2	-
WEL 184T OSHA Rules and Compliance	-	1
WEL 185T Flux Core Arc Welding	-	4
WEL 189T Metal Fabrication I	-	4
WEL 195T Special Topics	-	(1)
Total	16	14

Successful completion of the courses listed above results in the award of a Certificate of Applied Science in Welding.

Second Year	A	S
BUS 242T Supervision	-	3
CRT 182T Computer Aided Design and Drafting	2	-
MPR 214T Advanced Related Metals Processes	3	-
WEL 280T Gas Tungsten Arc Welding	4	-
WEL 281T Metal Fabrication II	-	4
WEL 282T Pipe Welding-SMAW and GTAW	4	-
WEL 283T Gas Metal Arc Welding	-	4
WEL 285T Automation in Welding	-	3
WEL 286T Welding Certification and Codes	-	2
WRIT 121 (WTS 115) Introduction to Technical Writing	3	-
Total	18	16

Courses

U = for undergraduate credit only. R after the credit indicates the course may be repeated for credit to the maximum indicated after the R. Credits beyond this maximum do not count toward a degree.

Building Maintenance (BME)

U 122T Electricity 6 cr. Offered spring. The electrical laws and principles pertaining to DC and AC circuits. Includes current, voltage, resistance, power, load, panels, feeders, lamps, motors, and fuses. Introduction to wiring methods and materials in conformance with the National Electric Code (NEC). Includes installation and replacement of light fixtures, heaters, GFCI's, switches, receptacles, and electrical thermostats.

U 123T Carpentry 6 cr. Offered autumn. Application of carpentry principles and techniques. Construction and maintenance of foundation, floor, wall, ceiling, and roof systems. Includes safe use of tools and materials common to the industry. Additional topics are painting, masonry, insulation, and ventilation of commercial buildings.

U 127T Low Pressure Boilers 3 cr. Offered spring. The fundamentals of low pressure boiler operation and maintenance. Covers steam, feed-water, fuel, and draft systems. Includes boiler water treatment and hot water heating systems. Introduces safe mechanical operating procedures used in the industry.

U 128T Maintenance 6 cr. Offered autumn. Maintenance principles pertaining to lawns, groundcovers, trees, swimming pools, plumbing, and building cleaning. Emphasis is placed on safe application of chemicals; maintenance frequency; and the identification and safe uses of associated tools and materials.

U 130T Heating and Air Conditioning 6 cr. Offered spring. The fundamentals of heating, ventilating, and air conditioning. Covers heating and refrigeration cycles, gas furnaces, refrigerants, system evacuation and charging, and components used in associated systems. Introduces the basic mechanical service procedures used in the industry.

U 228T Machine and Equipment Installation 2 cr. Offered spring. Tools and procedures for installing, leveling, and aligning equipment and machinery. Mechanical advantage formulas presented in physics are demonstrated. Included are safe loads for ropes, jacks, slings, and blocks and tackles. Skills pertaining to the proper use of ladders, scaffolds, safety belts, and life nets used in maintenance work are discussed.

Carpentry (CAR)

U 120T Framing Carpentry Lecture 4 cr. Introduction to the carpentry trade, including history, career opportunities, and requirements. The course covers building materials, fasteners, adhesives, hand tools, and power tools. Students learn about and are required to build a small building with a floor, walls, ceiling, and a roof. Windows and exterior door are also installed.

U 121T Framing Carpentry Lab 3cr. Lab to accompany CAR 120T.

U 130T Concrete Carpentry 4 cr. This course includes advanced blueprint reading, material estimating, site layout, measurement, and differential leveling. Concrete forms are constructed, including continuous, pier, grade beam, slabs, and footings. Form application and construction methods are demonstrated. Cutting, bending, splicing, and tying of reinforcing steel is required. Students learn methods for handling, placing, and finishing concrete. Manufactures forms are introduced for walls, columns, deck slabs, roof slabs, beams, and girders.

U 131T Concrete Carpentry Lab 4 cr. Lab to accompany CAR 130T

U 140T Exterior and Interior Finish Carpentry 4 cr. Study of various types of siding, gutter systems, roof venting requirements, and framing with metal studs. Installation of sheathing, exterior siding, roofing felt, shingles, insulation vapor barriers, and stairs on small building constructed in Carpentry 1. Installation of wood and metal doors including frames, locksets, and closers. Demonstration of materials, layout and installation of suspended ceilings. Selection and installation of countertops, base cabinets and wall cabinets. Window, door, floor, ceiling trim and drywall are installed in a small building

U 141T Interior and Exterior Finish Carpentry Lab 5 cr. Lab to accompany CAR 140T.

U 195T Special Topics 1-6 cr. (R-6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

U 196T Independent Study variable cr. (R-6) Offered intermittently

U 220T Advanced Carpentry Lecture 4 cr. The process of angular measurement, using transits, theodolites, electronic distance measuring devices, lasers, and trigonometric calculating to lay out foundations and determine elevations. Installation of standing seam, lap seam, and built-up roofing systems; concrete, vinyl, wooden, tile, and carpeted floors as well as radiant heating; paneling, wainscoting, movable partitions, curtain walls and fire-rated commercial wall construction. Advanced stair systems, including shop built and prefabricated stairs, balustrades, mitered risers and treads, and layout of elliptical fastening methods, and assembly techniques. Project planning, scheduling, estimating, and management skills included.

U 221T Advanced Carpentry Lab 3 cr. Laboratory to accompany CAR 220T.

U 230T Building Management 3 cr. Introduction to building business and project management including overhead costs, payroll costs, estimating and scheduling. Covers elements of payroll computation and preparation, payroll tax returns, information returns, and identification and compensation of independent contractors. Students are introduced to building cost estimating, and scheduling of subcontractors and building inspections.

U 231T Building Management Lab 3 cr. Laboratory to accompany CAR 130T.

U 235T Building Energy Conservation 3 cr. Study of the analysis techniques used for reduction of energy consumption and energy management, including energy accounting and energy auditing. Residential and commercial building energy efficiency opportunities will be covered. Other topics addressed include motors, pumps, green building, and purchasing energy supplies. Career opportunities in energy efficiency will be discussed.

U 236T Building for Solar Energy 3 cr. Study of the basics of solar energy and design with emphasis on passive solar applications. The elements and design patterns for successful passive solar buildings are covered in detail. Design requirements for solar generated electricity and solar heated water are considered. Also covered are designing new and remodeled buildings to be solar ready, solar retro-fits, and other applications.

U 240T Alternative Construction Materials 3 cr. Review of alternative construction materials and other alternative building materials, as well as building materials using recycled components. Re-use of salvaged materials and use of nontraditional building methods such as straw bale and rammed earth construction will be covered.

U 241T Applied Building Practices 6 cr. Offered spring. Prereq., CAR120T, 121T, 130T, 131T, 140T, 141T. Students work on a variety of projects either at the college or in the community to practice and develop their skills as well as learn new skills. Knowing and following OSHA rules and regulations is emphasized. Expectation of professional quality product.

Diesel Technology (DET)

U 120T Electrical Systems 8 cr. Offered spring. The theory of AC/DC electricity including Ohm's Law, magnetism, wiring diagrams, and circuit analysis. Starting, charging, and related systems are covered in-depth using test equipment commonly found in heavy equipment repair facilities. Electronic systems are reviewed and tested using common electronic test equipment.

128T Engine Service I 4 cr. Offered autumn. Introduction to the construction and operation of internal combustion engines with the diesel engine being examined in detail. The use of measuring tools and related special tools is covered extensively along with common manufacture rebuild procedures. Start-up and running practices are demonstrated on various running diesel engines.

U 135T Power Trains 7 cr. Offered autumn. Chassis and drive train components used in light and heavy-duty trucks and other equipment. Clutches, manual transmissions, differentials, and final drives are covered.

U 196T Independent Study Variable cr. (R-6) Offered every term.

U 221T Brakes, Suspension, and Undercarriage 6 cr. Offered autumn. Air brake design, construction, and operating principles including an in-depth study of diagnostic procedures for troubleshooting and repairing brake systems. Suspension systems and undercarriage design and repair are covered along with common axle alignment procedures found in industry.

U 225T Hydraulics 6 cr. Offered autumn. Theory and application of hydraulics relative to mobile construction equipment and industrial hydraulic systems. Includes valves, pumps, motors, actuators, and related hydraulic components, system maintenance, troubleshooting, and repair.

U 229T Engine Service II 7 cr. Offered spring. Prereq., DET 128T. A continuation of Engine Service I with a major emphasis placed on the rebuilding of a diesel engine. Engine components repair and failure analysis are reviewed along with tune-up and running of diesel engines commonly found in the heavy equipment trade. Shop flat-rate procedures, work order procedures, and warranty requirements are covered.

U 230T Air Conditioning 3 cr. Offered spring. Prereq., DET 120T, DET 225T. Principles, theories, and the hazards of working with R-12 and R-34, including laws governing these refrigerants. An in-depth study of the components of an air conditioning system including hands-on practice. Discharging and charging principles are discussed, including leakage testing and other general diagnostic principles found in the field.

U 231T Fuel Systems 5 cr. Offered spring. A comprehensive study of diesel fuel injection systems to include: Cummins, Roosa Master, Caterpillar, Detroit Diesel, and Bosch. Disassembly and repair of these systems are covered in-depth along with calibration practices. Installation, timing, and on-engine adjustments are made on diesel engines. On-engine diagnosis of the fuel systems using special diesel engine diagnostic tools is reviewed.

U 235T Advanced Power Trains 2 cr. Offered spring. Prereq., DET 135T. A continuation of DET 135T with an emphasis on heavy automatic transmission, torque converters, and powershift transmission. In-depth coverage of component review troubleshooting and repair.

U 270T Diesel and Gaseous Fueled Engines 3 cr. Offered summer. Prereq., completion of an accredited diesel program or consent of instr. Overview of the diesel engine and its operating principles including the fuel systems found in the power generation field. Both mechanical and electronic type systems studied in depth. Gaseous/spark ignited internal combustion with in-depth look at both the ignition system and

fuel system. Emission systems, preventive maintenance and general tune-up included.

U 271T Power Generators 5 cr. Offered summer. Prereq., completion of accredited diesel program and DET 270T. Introduction to generators as found in the power generation field including the review of electrical laws that pertain to A/C and D/C current. The operation of a typical internal combustion powered generator will be covered in depth including troubleshooting and rebuilding practices found in the power generation field. Generator mounting/alignment practices and generator installations, including flow requirements for combustion and cooling.

U 272T Power Generation Controls 4 cr. Offered summer. Prereq., completion of accredited diesel program and DET 271T. Operation of the generator and controls including governing devices and other specialized devices such as reverse power relays and volt/amp reactive power factor (VAR) controllers. Intensive troubleshooting including in depth coverage of service and repair of control systems.

Heavy Equipment Operation (HEO)

U 140T Basic Surveying 2 cr. Offered autumn. Basic principles of surveying and the use of surveying equipment. Calculation of angles and distances to determine grade elevations. Introduction to Global Positioning Systems, lasers and their relationship to the heavy equipment operator.

U 142T Basic Surveying II 1 cr. Offered spring. Prereq., HEO 140T. Students' plan and layout projects undertaken by the program within the community. The students participate in staking and controlling the project by using skills acquired in HEO 140T. Emphasis is on earthwork surveying.

U 146T Safety and Basic Controls 5 cr. Offered autumn. Orientation to the safe operation and basic control of crawler-tractors, scrapers, front-end loaders, motor graders, backhoes, trucks, and other heavy equipment units. Sufficient time is allowed for the development of basic machine operational skills.

U 148T Operational Skill Building 5 cr. Offered autumn. Prereq., HEO 146T. Advancement of basic skills. Proper understanding and operation of heavy equipment is pursued. Time is allowed for development of proper operational techniques.

U 150T Job Simulation 6 cr. Offered spring. Prereq., HEO 146T, HEO 148T. Incorporates learned skills into entry-level, industrial situations. Emphasis is on advanced equipment usage, problem definition and resolution, project-type earth moving assignments, proper equipment, and safety regulations. Course may allow participation in cooperative project efforts within the community.

U 151T Service and Maintenance 2 cr. Offered autumn. Different types of lubricants and their applications, scheduled and preventive maintenance procedures, and importance of periodic services and maintenance. Also included are safety procedures and regulations.

U 153T Construction Theory and Specialized Equipment 5 cr. Offered spring. Prereq., M 111 (MAT 110T). Study of construction principles, specialized equipment, production estimates, and various related subjects.

Metals Processes (MPR)

U 112T Related Metals Processes 1 cr. Offered spring. Use of hand tools and machines which relate to the repair of heavy equipment. Instruction covers fasteners, layout, bench metal, threads and threading, drills and drilling, and tool sharpening.

U 114T Related Metals Processes 3 cr. Offered autumn. Instruction and use of drills, files, threads and threading processes, basic lathe, drill press, and band saw operation, including precision measuring instruments. Fasteners, layout procedures, and basic hand tools are covered.

U 115T Related Metals Processes 3 cr. Offered autumn and spring. A basic metalworking course covering fasteners, layout, bench metal, heat treating, threads and threading, drills and drilling, basic machining, and tool sharpening.

U 214T Advanced Related Metals Processes 3 cr. Offered autumn. Prereq., MPR 114T or 115T. Advanced skill development using machine tools such as milling machines, lathes, surface grinders, and drill presses, emphasizing safety and providing greater complexity than provided in MPR 114T. Welding and machining are used together demonstrating how sequencing work improves quality and productivity.

U 196T Independent Study Variable cr.(R-6) Offered intermittently. Prereq., consent of instr.

Small Engine Technology (SET) (Recreational Power Equipment)

U 160T Basic Electricity 3 cr. Offered autumn. The theory of AC/DC electricity including Ohm's Law, magnetism, series circuits, parallel circuits, the use of meters, and electrical test equipment. Includes electrical symbols, soldering, storage batteries, cranking motors, and electrical safety.

U 176T Motorcycle/ATV Engines, Suspension, and Chassis 3 cr. Offered autumn. Study of the design and function of several types of engines, transmissions, suspension, and brake systems.

U 177T Motorcycle/ATV Electrical and Fuel Systems 4 cr. Offered autumn. Prereq., SET 160T. Principles of ignition, charging, and

cranking systems. Design and function of carburetor, fuel injection, and lubrication systems. Hands-on diagnosis of problems and testing of systems.

U 178T Marine Electrical and Fuel Systems 5 cr. Offered spring. Prereq., SET 160T. Theory of and testing and troubleshooting of problems with ignition, charging, and cranking systems. Includes the design, testing, and troubleshooting of marine carburetion and fuel injection systems.

U 179T Marine Powerheads and Lower Units 6 cr. Offered spring. Prereq., SET 178T. Theory of design, function and components of outboard motor powerheads and lower units. Includes basic rigging, power trim and tilt, propping, and personal watercraft design, function, and maintenance.

U 180T Snowmobile Maintenance and Repair I 2 cr. Offered autumn. Prereq., SET 177T. The repair and maintenance of air cooled and liquid cooled engines. Includes clutch, track, and rear suspension service and maintenance.

U 181T Snowmobile Maintenance and Repair II 2 cr. Offered spring. Prereq., SET 180T. Principles and theory of snowmobile electrical, fuel, front suspension, and brake systems.

U 182T Computer Applications for Motorsports Professionals 1 cr. Offered spring. Prereq., CRT 100. Use of recreational power equipment software for parts retrieval, invoicing and payment methods. Students build, query, and create reports using database software, and create a business plan for a hypothetical dealership.

U 195T Special Topics 1-6 cr. (R-6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

U 196T Independent Study Variable cr. (R-6) Offered intermittently.

Truck Driving (TRK)

U 106T Commercial Driver's License (CDL) Training 1 cr. Offered intermittently. Prereq., consent of instr. Individual schedule. Truck safety, operation, and maintenance review. Schedule and obtain Class A Commercial Driver's License (CDL).

Welding Technology (WEL)

U 111T Welding 2 cr. Offered autumn. Basic and intermediate processes of shielded metal arc welding (SMAW) and oxyacetylene welding are covered in flat, horizontal, and vertical positions in a variety of joint configurations. Instruction in the oxyacetylene cutting process.

U 119T Welding for Carpenters 2 cr. Offered spring. Basic welding processes of shielded metal arc welding (SMAW), flux core arc welding (FCAW) are covered in the flat, horizontal, and vertical positions in a variety of joint configurations. The instruction in flux core arc welding is focused on the carpentry building trades. Instruction in the oxyacetylene cutting process is also provided. Safe operation of equipment is covered and work is evaluated to industrial standards. This course is designed for carpentry students.

U 139T Welding Maintenance and Repair 2 cr. Offered autumn. Prereq., MPR115T, WEL 111T. Combines the skills gained in welding and machine shop for practical applications such as repairing a broken cylinder block. Major emphasis is placed on repair techniques. Common repair procedures using machine shop and welding equipment is demonstrated.

U 180T Welding Metallurgy 4 cr. Offered autumn. Covers the manufacturing of iron and steel. Examination of physical and mechanical properties. Phase changes with the application of heating and cooling cycles. Ferrous crystal types and properties. Suggested welding procedures for low, medium, and high carbon steels, alloy steels, and cast iron.

U 181T Shielded Metal Arc Welding (Plate) and Thermal Cutting 4 cr. Offered autumn. Theory and safe operation of shielded metal arc welding (SMAW) of carbon steel on plate and structural components in all positions to industry standards. Visual inspection and destructive testing used to determine acceptability based upon industry standards (American Welding Society Structural Welding Code-Steel). Power sources and electrodes are covered in depth. Materials are prepared using mechanical plate shears and thermal cutting techniques. Thermal cutting techniques are examined relative to theory of operation and safe practices. Processes used are oxy-fuel cutting, plasma arc cutting, and air carbon arc cutting. Theory and operation of oxyacetylene welding examined.

U 182T Blueprint Reading and Development 3 cr. Offered spring. Prereq., WEL 183T. Practical experience in reading and drawing orthographic projections, interpreting dimensions, notes, scales, and welding symbols. Isometric projection (pictorial), sections, and auxiliary views with practical experience using conventional drafting tools and computer aided drafting (CAD).

U 183T Layout Techniques 2 cr. Offered autumn. Encompasses layout on material of various shapes using blueprints and practical layout techniques on pipe and structural steel. Use of contour markers and a review of geometric construction. Computation of approximate costs is included.

U 184T OSHA Rules and Regulations 1 cr. Offered spring. Study of the Occupational Safety and Health Administration rules and regulations that affect the welding and construction industries.

U 185T Flux Core Arc Welding 4 cr. Offered spring. Theory, practice, and safe operation of flux core arc welding equipment. Coupons

are welded in the flat, horizontal, and vertical positions to industry standards using a variety of welding electrodes, diameters, and power sources, which prepare students for welding qualification to the American Welding Society Structural Welding Code specifications.

U 189T Metal Fabrication I 4 cr. Offered spring. Prereq., MPR 114T; WEL 181T; coreq., WEL 182T, 185T. Conception, design, and construction of a metal structure to industry standards using shears, presses, and other machine tools common to the welding industry. Skills are developed in the areas of shielded metal arc welding and flux core arc welding, oxyacetylene cutting, plasma arc cutting, and air carbon arc cutting.

U 195T Special Topics 1-6 cr. (R-6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

U 196T Independent Study Variable cr. (R-6) Offered intermittently.

U 280T Gas Tungsten Arc Welding 4 cr. Offered autumn. The theory and safe operation of Gas Tungsten Arc Welding (GTAW). Examination of power source controls and operation along with associated consumables such as gasses, electrode filler materials for carbon steel, stainless steel, and aluminum. Welding skill development according to industry standards using these materials in the flat, horizontal, and vertical positions.

U 281T Metal Fabrication II 4 cr. Offered spring. Prereq., MPR 114T, MPR 214T; WEL 181T, 185T, 182T, 183T, 280T, 283T. Students combine all knowledge and skills developed in the welding program to design and draw a full set of plans (blueprints) for an instructor-approved project using extensive welding, metal fabrication equipment, machining processes and automation. High quality performance, consistent with business and industry required.

U 282T Pipe Welding-SMAW and GTAW 4 cr. Offered autumn. Prereq., WEL 181T; coreq., WEL 280T. Emphasis on skill development in the welding of pipe sections to extremely high quality levels as required by national codes and standards. Pipe welding using GTAW for the root pass and SMAW for the remaining passes in all positions. Visual inspection and destructive testing used to evaluate work according to industry standards.

U 283T Gas Metal Arc Welding 4 cr. Offered spring. Prereq., WEL 185T. Theory and safe operation of Gas Metal Arc Welding (GMAW). Theory of flux core arc welding applied to GMAW. Primary focus on application, practical skill development, and producing welds that meet industry standards. Metals welded are low carbon steel, stainless steel, and aluminum. Short circuit arc and spray arc transfer used. Examination of gas and electrode selection.

U 285T Automation in Welding 3 cr. Offered spring. Application of the welding process to automation. Examination of simple automation techniques such as tools, clamping, and fixturing to aid in the rapid joining of production runs. Increasing complexity is examined leading into equipment that carries the welding gun, tractors, and carriages by fully automated systems with the student performing set-up and troubleshooting (Submerged Arc Welding) and automated parts processing (optical tracer torch). Programmable controllers are investigated and used. Programming and use of a PUMA 650 Industrial Robot.

U 286T Welding Certification and Codes 2 cr. Offered spring. Prereq., WEL 181T, 185T. Fundamental concepts and requirements of the American Society of Mechanical Engineers (ASME) and American Welding Society (AWS) are examined. Through laboratory experience students are provided the opportunity to qualify (certify) under the two codes mentioned above.

U 295T Special Topics 1-6 cr. (R-6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

School of Art

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Julia Galloway, Director

The School of Art provides a comprehensive education in studio art, including intensive hands-on studio practice, art history, criticism, and theory. Programs provide thorough professional training for students interested in careers in the field of art. Degree offerings include the B.A., B.F.A., M.A., and M.F.A. in Art. Areas of specialization are Ceramics, Drawing, Painting, Photography, Printmaking and Sculpture. An M.A. degree in Studio Art and/or Art History is also offered, as well as courses that prepare students for licensure for teaching art.

Advanced Placement Policy

All students, including those who have taken AP examinations, must submit a portfolio to challenge art classes. Undergraduate students may challenge foundations courses only (Art 101A, Visual Language: Drawing; 102A, Visual Language: 2-D Design; and 103A, Visual Language: 3-D Design).

Portfolios are reviewed at the beginning of each semester. The challenge process waives the requirement to take a specific class, but does not provide any credits. The process of portfolio reviews is as follows: students submit a portfolio of ten .jpeg files or pieces of actual work to the school office two weeks prior to the beginning of the semester. If challenging more than one course, students submit examples of work for each course, for example: ten drawing samples for 101A, ten color works for 102A, and/or ten 3-D pieces for 103A.

Transfer Students

Students with transfer credits from another institution must contact the school director for review of transfer transcripts to assess course equivalents.

Special Degree Requirements

Refer to graduation requirements listed previously in the catalog. See index.

Students pursuing Bachelor of Fine Arts or Bachelor of Arts degrees with a major in Art must earn a “C” (2.00 on a 4.00 scale) grade or better in all Art courses fulfilling requirements in order to graduate.

Bachelor of Fine Arts Review Process

All students initially enter as Bachelor of Arts (B.A.) candidates. Students interested in earning the Bachelor of Fine Arts Degree (B.F.A.) must comply with following:

1. Must have and maintain a 3.0 grade point average in Art and a 2.5 overall GPA.
2. Students apply for the B.F.A. program once they have completed 33-45 Art credits. B.F.A. portfolio reviews take place once each semester. A transfer student who enters with more than 45 earned credits must be reviewed the first semester of their residency.
3. The following course selections are review prerequisites: ART 150H, 151H, 101A, 102A, 103A, four 200-level studio courses, and two 300-level studio courses.
4. Should a student not be admitted to the B.F.A. program in their first application, a second and final application the following semester is encouraged.
5. Applications for the B.F.A. program must include: the application form with the area faculty signature, statement of purpose, and portfolio. Applications are reviewed each semester prior to registration. Incomplete or late applications will not be considered.

Bachelor of Fine Arts with a major in Art

For the Bachelor of Fine Arts degree, areas of specialization are: Ceramics, Drawing, Painting, Photography, Printmaking and Sculpture. This is a professional degree requiring 75 credits in art distributed as follows: art fundamentals, 9; beginning art history, 6; photography, 3; ceramics, 3; printmaking, 3; sculpture, 3; painting, 3; drawing, 3; introductory art criticism, 3; upper-division art history, 6; upper-division art criticism, 3; upper-division studio courses outside area of specialization, 12; upper-division studio courses in the area of specialization, 12; professional practices/senior thesis, 6.

Bachelor of Arts with a major in Art

Students seeking the Bachelor of Arts degree with a major in Art must complete 57 credits in art: art fundamentals, 9; beginning art history, 6; photography, 3; ceramics, 3; printmaking 3; sculpture, 3; painting, 3; drawing, 3; introductory art criticism, 3; upper-division art history, 6; upper-division (300- and 400-level) art studio courses, 12; upper-division art criticism, 3.

Bachelor of Arts with a major in Art, specialization in Art Education

Art education is an area of specialization designed for the student seeking licensure (K-12) in the extended major teaching field of art.

A student must complete ART 101A, 102A, 103A, 150H, 151H, 203L, 215A, 223, 229A, 235, 240A, 323, 407, 408 and one course chosen from ART 233A or DAN 427, nine credits in upper-division studio courses, six credits in upper-division art history courses, 3 credits in upper-division art criticism.

For licensure to teach Art K-12, a student must gain admission to Teacher Education and Student Teaching and meet the requirements for teacher certification (see the College of Education section of this catalog).

Suggested Course of Study: B.A./B.F.A. Degree.

Credits in parentheses are additional requirements for the B.F.A.

First Year	F	S
Art 101A Visual Language: Drawing	3	-
Art 102A Visual Language: 2-D Design	-	3
Art 103A Visual Language: 3-D Design	3	-
ART 150H-151H Art of World Civilization	3	3

Two sections of studio class i.e. ART 235 Sculpture I -	3	
and/or ART 233 Printmaking I	-	3
WRIT 101 (ENEX 101) College Writing I	3	-
Other General Education courses	3	3
	15	15

Second Year

ART 203L Introduction to Art Criticism	3	-
ART 223 Drawing I	3	-
ART 229A Ceramics I	-	3
ART 215A Photography I	3	-
ART 240A Painting I	-	3
General Education	6	9
	15	15

Third Year

Art History (300-level)	3	3
Studio II courses	6	6
Studio courses (B.F.A. option courses)	(3)	(3)
Art 303L or 403L Art Criticism	3	3
General Education	3	6
	15-18	15-18

Fourth Year

Studio courses (B.F.A., courses in specialization)	(3)	(3)
Studio art courses (300-400 level)	3	3
ART 494 Professional Practices (B.F.A.)	(3)	-
ART 499 Senior Thesis (B.F.A.)	-	(3)
Elective & General Education	6-12	6-12
	15-18	15-18

Requirements for a Minor

Art History/Criticism

To earn a minor in art history/criticism the student must complete at least 24 credits to include the following; ART 101A; ART 150H, 151H, ART 203L; 9 credits from 300-level art history courses; 3 credits from ART 303L, or 400-level art history and criticism courses.

Art Studio

To earn a minor in art studio the student must complete at least 27 credits to include the following: ART 101A, 102A, 103A; ART 150H, 151H; 9 credits from ART 215A, 229A, 233A, 235, 240A, or 223; and 3 credits in 300-level studio courses.

Courses

U=for undergraduate credit only, UG=for undergraduate or graduate credit, G=for graduate credit. R after the credit indicates the course may be repeated for credit to the maximum indicated after the R. Credits beyond this maximum do not count toward a degree.

Art (ART)

Studio Courses

U 101A Visual Language: Drawing 3 cr. Offered autumn and spring. An introduction to visual language, concepts, and studio practicum. Focus on basic skills development in rendering volume, pictorial depth, and figure/ground relationships. Research in historical and contemporary approaches to drawing.

U 102A Visual Language: 2-D Design 3 cr. Offered autumn and spring. Prereq. or coreq., ART 101A. An introduction to the formal elements and principles of design, color theory, and predominant western and non-western historical styles. Emphasis on solving specific design problems.

U 103A Visual Language: 3-D Design 3 cr. Offered autumn and spring. Basic three-dimensional course for both general education and beginning art students. Prerequisite to beginning sculpture and beginning ceramics. Emphasis placed on conceptualization and formal development of the 3-D object in the areas of form, mass, scale, texture, space and color.

U 129A Ceramics for Non-Majors 3 cr. Offered intermittently. A general introduction to art using ceramics. Less specialized than

Ceramics I for art majors. Credit not allowed toward a B.A., B.F.A., or minor in art.

U 195 Special Topics Variable cr. (R-6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

U 215A Photography I 3 cr. Offered autumn and spring. Prereq., ART 101A. Introduction to photography as an art form. Exposure, camera basics, composition, developing, printing, print finishing techniques. Focus on technical expertise and issues of content and personal expression.

U 223 Drawing I: Figure Drawing 3 cr. Offered autumn and spring. Prereq., ART 101A, 103A and 150H or 151H. Study of human anatomy with an emphasis on rendering and interpreting the figure. Research in historical and contemporary figuration as a basis for developing a portfolio.

U 229A Ceramics I 3 cr. Offered autumn and spring. Prereq., ART 103A. Introduction to clay as a historical and contemporary art-making medium. Basic methods of building with clay, with emphasis on handbuilding; elementary solutions to problems of glazing and surface treatment.

U 233A Printmaking I 3 cr. (R-9) Offered autumn and spring. Prereq., ART 101A. Introduction to various printmaking media.

U 235 Sculpture I 3 cr. Offered autumn and spring. Prereq., ART 103A. Introduction to fundamental technical skills and new processes in various materials. Further development of the formal concerns within three-dimensional design. Issues of content and formal criticism as it relates to personal expression.

U 240A Painting I 3 cr. Offered autumn and spring. Prereq., ART 101A, 102A, 150H and 151H. Acrylic and oil painting emphasizing composition and application of color theory. Research in historical and contemporary strategies.

U 293 Omnibus Variable cr. (R-10) Offered intermittently. University omnibus option for independent work. See index.

U 295 Special Topics Variable cr. (R-12) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

U 315 Photography II 3 cr. Offered autumn and spring. Prereq., ART 101A and 215A. Further exploration of photography as an art form. Survey of different approaches to cameras, films, chemical and digital processes, presentation techniques. Emphasis on issues of content and personal expression.

U 317 Digital Photography I 3cr. Offered autumn or spring. Prereq., ART 101A, 215A. Introduction to digital photographic manipulation. Survey of techniques, theory and potential for creative expression as an art form.

U 318 Alternative Process Photography 3 cr. Offered intermittently. Prereq., ART 101A, 215A. Introduction to historic, experimental and alternative process photography. Survey of techniques, theory and potential for creative expression as an art form.

UG 323 Drawing II 3 cr. (R-12) Offered autumn and spring. Prereq., ART 101A, 102A, 150H, 151H, 203L, and 223. Exploration and production of drawings with emphasis on individual expression. Studio practicum, lectures, critiques, reading and writing.

UG 324A Environmental Drawing Seminar 3 cr. Offered Spring. A drawing seminar specifically designed for the Wilderness and Civilization program. Students will explore and develop individual ideas with various media based on the curriculum of the Wilderness Program.

UG 329 Ceramics II 3 cr. (R-12) Offered autumn and spring. Prereq., ART 103A and 229A. Further exploration of the ceramic process introducing more complex ways of handbuilding and developing the art of throwing. Examination of the technology and chemistry of clay, glazes and high temperature oxidation and reduction firing.

U 330 Clay and Glaze 3 cr. Offered autumn. Prereq., ART 103A, 229A. In-depth study of the physical and chemical properties of clays and glazes. Hands-on testing of various clay and glaze formulas and an introduction to kiln firing.

UG 333 Printmaking II 3 cr. (R-12) Offered autumn and spring. Prereq., ART 233A. Continued work in various printmaking media.

UG 335 Sculpture II 3 cr. (R-12) Offered autumn and spring. Prereq., ART 103A or 235. Focus on contemporary issues and a deeper engagement with materials. Development and execution of clear sculptural responses to material-based and topic-based assignments.

UG 340 Painting II: The Figure 3 cr. Offered autumn and spring. Prereq., ART 150H, 151H, 203L, 223, and 240A. Exploration of painting with emphasis on the human figure and classical compositions and techniques, studio practicum, lectures, critiques, reading and writing.

UG 341 Painting II 3 cr. (R-9) Offered autumn and spring. Prereq., ART 150H, 151H, 203L, and 340. Includes ART 341: Process and Abstraction and ART 341: Contemporary Issues and Methods. Studio practicum, lectures, critiques, reading and writing.

UG 390 Supervised Internship Variable cr. (R-12) Offered autumn and spring. Special internships under direction of department faculty allowing students practical experience in a chosen area.

U 393 Omnibus Variable cr. (R-10) Offered intermittently. University omnibus option for independent work. See index.

UG 395 Special Topics Variable cr. (R-12) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

UG 414 Photography III 3 cr. (R-9) Offered autumn or spring. Prereq., ART 101A, 215A, 315. Further exploration of photographic theory, criticism, technique and expression as an art form.

UG 415 Independent Study in Photography 2-6 cr. (R-12) Offered intermittently. Prereq., ART 215A, 315, and consent of instructor. Advanced photographic techniques.

UG 416 Advanced Research in Photography 3 cr. (R-9) Offered intermittently. Pre-req., consent of instructor. Investigation of photography with emphasis on student proposals, including specific technical and conceptual aspects.

UG 423 Independent Study in Drawing 2-6 cr. (R-12) Offered intermittently. Prereq., ART 101A, 102A, 150H, 151H, 203L, 223, and 323, and consent of instructor. Advanced drawing techniques.

UG 424 Advanced Research in Drawing 3 cr. (R-9) Offered intermittently. Prereq., ART 323 and consent of instructor. Investigation of drawing with emphasis on student proposals, including specific technical and conceptual aspects.

UG 429 Independent Study in Ceramics 2-6 cr. (R-12) Offered intermittently. Prereq., ART 103A, 229A, 3 credits of ART 329, 3 credits of ART 330 and consent of instructor. Continued exploration of ceramic art. Individualized approach with student initiative in determining projects.

UG 430 Advanced Research in Ceramics 3 cr. (R-9) Offered intermittently. Investigation of ceramics with emphasis on student proposals, including specific technical and conceptual aspects.

UG 433 Independent Study in Printmaking 2-6 cr. (R-12) Offered intermittently. Prereq., 6 credits in ART 333, consent of instructor. Independent projects in printmaking.

UG 434 Advanced Research in Printmaking 3 cr. (R-9) Offered intermittently. Investigation of printmaking with emphasis on student proposals, including specific technical and conceptual aspects.

UG 435 Independent Study in Sculpture 2-6 cr. (R-12) Offered autumn and spring. Prereq., ART 103A, 235, 335, consent of instructor. Advanced techniques in sculpture.

UG 436 Advanced Research in Sculpture 3 cr. (R-9) Offered intermittently. Prereq., ART 103A or 135, 235, 335, and consent of instructor. Thorough investigation and articulation of the communicative elements of art. Emphasis on the craftsmanship of ideas and the refinement of personal aesthetics as they pertain to sculptural production.

UG 440 Independent Study in Painting 2-6 cr. (R-12) Offered autumn and spring. Prereq., ART 101A, 102A, 150H, 151H, 203L, 223, 240A, 340, and 341 and/or consent of instructor. Minimum of 9 credits of 300-level painting courses. (Exceptions for special circumstances such as January term courses, study abroad, etc.) Independent projects in painting.

UG 442 Advanced Research in Painting 3 cr. (R-9) Offered intermittently. Prereqs., ART 101A, 102A, 150H, 151H, 203L, 223, 240A, 323, 340, and 341 and/or consent of instructor. Investigation of painting with emphasis on student proposals, including specific technical and conceptual aspects.

UG 490 Supervised Internship Variable cr. (R-12) Offered intermittently. Prereq., consent of instructor. Special internships under direction of department faculty allowing students practical experience in a chosen area.

U 493 Omnibus Variable cr. (R-10) Offered intermittently. University omnibus option for independent work. See index.

UG 494 Professional Practices Seminar 3 cr. Offered autumn. Prereq., senior or graduate status. Required of all graduating B.F.A. students. Introduction to professional practices and standards in the visual arts, including presentation, portfolio development, career and exhibition opportunities, arts advocacy and graduate school.

UG 495 Special Topics Variable cr. (R-6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

U 499 Senior Thesis 3 cr. Offered spring. Prereq., senior status, ART 494, and successful passage of B.F.A. review. Required of B.F.A. students. Focus on completion of artwork and preparation for the required spring B.F.A. exhibition. Further exploration of professional practices topics and career opportunities.

G 515 Graduate Studio in Photography 2-6 cr. (R-18) Offered autumn and spring. Prereq., consent of instructor. Students work on projects of specific interest in the field with a faculty member.

G 523 Graduate Studio/Drawing 2-12 cr. (R-24) Offered autumn and spring. Prereq., consent of instructor. Advanced research in drawing.

G 525 Graduate Studio/Design 2-6 cr. (R-12) Offered autumn and spring. Prereq., consent of instructor. Advanced research in design.

G 529 Graduate Studio/Ceramics 3-6 cr. (R-18) Offered autumn and spring. Prereq. consent of instructor. Advanced research in ceramics.

G 533 Graduate Studio/Printmaking 2-12 cr. (R-24) Offered autumn and spring. Prereq., consent of instr. Advanced research in printmaking.

G 535 Graduate Studio/Sculpture 2-6 cr. (R-18) Offered autumn and spring. Prereq., consent of instructor. Advanced research in sculpture.

G 540 Graduate Studio/Painting 3-6 cr. (R-18) Offered autumn and spring. Prereq., consent of instructor. Advanced research in painting.

G 580 Graduate Teaching Assistant Seminar 3 cr. Offered autumn. Prereq., graduate standing. Preparation to teach foundation and entry level art courses.

G 594 Seminar Variable cr. (R-6) Offered intermittently.

G 595 Special Topics Variable cr. (R-9) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

G 596 Independent Study 2-6 cr. (R-18) Prereq., consent of instructor. Offered intermittently.

G 598 Internship 2-6 cr. (R-12) Offered intermittently. Prereq., consent of instructor.

G 699 Thesis and Terminal Project Variable cr. (R-12) Offered autumn and spring.

Art History

U 100L Art Appreciation 3 cr. Offered autumn and spring. An introduction to the visual arts exploring various approaches to understanding art, art history and terminology, techniques and media, motivating factors behind the creative act.

U 150H Art of World Civilization: Ancient to Medieval Art 3 cr. Offered autumn. Survey of history of visual art from prehistory to 1400.

U 151H Art of World Civilization : Early Modern to Contemporary Art 3 cr. Offered spring. Survey of history of visual art from 1400 to the Present.

U 336H History of Architectural Design: Pre-history to 1850 3 cr. Offered autumn. Same as DRAM 336H. Knowledge and understanding of architectural styles, designs and choices of the built environment from prehistory megalithic architecture to the start of the modern age.

UG 367H Art of the Ancient Americas 3 cr. Offered intermittently. Prereq., ART 150H or 151H or consent of instructor. Same as NAS 367H. Development of major ceremonial and urban centers throughout the Americas before the coming of Europeans. Analysis of how the visual arts articulate ancient world views or cosmologies in relation to nature. Focus on various strategies of reading the structure and meaning encoded in the layout of cities, stone sculpture, wall murals, ceramics, precious metals, and textiles.

UG 368H Latin American Art 3 cr. Offered intermittently. Prereq., ART 150H or 151H or consent of instructor. Same as NAS 368H. Exploration of themes in the development of Latin American art from the colonial period to the present including Renaissance ideals in the "New World", syncretism of European, African, and indigenous roots, the Black Legend, and the advent of such movements as Academism, Modernism, Social Realism, Magic Realism and Post-Modernism.

UG 380H Ancient Greek Civilization and Culture 3 cr. Offered intermittently. Prereq., ART 150H or 151H or consent of instructor. Same as LS 340H and MCLG 360H. Ancient Greek works of art and architecture, related to and explained by contemporary ideas and values of Greek society.

UG 381H Roman and Early Christian Art in Context 3 cr. Offered intermittently. Prereq., ART 150H or 151H or consent of instructor. Same as LS 341H and MCLG 361H. A survey of the various media used in Roman art; the social political, and economic contexts in which the media were developed; and the transition (technical, iconographic, and contextual) to the art of the Early Christian period.

UG 384H Art of the Renaissance 3 cr. Offered intermittently. Prereq., ART 150H or 151H or consent of instructor. Exploration of the arts of 1450-1600 in western Europe. Focus on themes such as the recovery of the classical past, development of scientific naturalism and linear perspective, and the evolution of major art forms architecture, urbanism, religious altarpieces and devotional images, fresco and oil

paintings, monumental sculpture, etc.

UG 389H American Art 1860 to the Present 3 cr. Offered intermittently. Prereq., ART 150H or 151H or consent of instructor. American painting, sculpture and architecture from the Civil War to the present.

UG 450H Advanced Research in Art History 2-6 cr. (R-6) Offered autumn and spring. Prereq., ART 150H-151H, a 300-level art history course and consent of instructor. Advanced research in art history topics agreed upon by student and instructor.

UG 451H Seminar in Art History and Criticism 3 cr. (R-9) Offered intermittently. Prereq., ART 150H-151H, a 300-level art history course and consent of instructor. Upper-division seminar in varying topics of art history and criticism.

UG 480H Women Artists and Art History 3 cr. Offered intermittently. Prereq., ART 150H or 151H or consent of instructor. A survey of major women artists in context of social history and aesthetics from ancient to modern times. Analysis of feminism and works by contemporary women artists in film and video.

UG 484H African Art 3 cr. Offered intermittently. Prereq., ART 150H or 151H or consent of instructor. Broad investigation of the visual arts of Africa; historical civilizations, including Egypt, and colonial and post-colonial societies; methodologies for study of non-western societies; "Primitivism;" and the importance of African Art for the development of western art.

UG 485H Spanish Art 3 cr. Offered intermittently. Prereq., ART 150H or 151H or consent of instructor. Exploration of the history of Spanish art from the cave paintings to the 21th century. Focus on Spanish art and aesthetics and Spain's cultural identity through the visual arts.

UG 486H Art of the 19 Century 3 cr. Offered autumn. Prereq., ART 150H or 151H or consent of instructor. Exploration of major themes in European art from 1800 to 1900. Focus on major cultural and intellectual trends such as Neoclassicism, Romanticism, Realism, Impressionism and early Modernism.

UG 487H Art of the 20th Century 3 cr. Offered spring. Prereq., ART 150H or 151H or consent of instructor. Exploration of major themes in the development of art of the 20th century. Focus on major cultural and intellectual trends of the Modern and Post-Modern ages.

G 550 Graduate Studies/Art History 2-6 cr. (R-12) Offered autumn and spring. Prereq., consent of instructor. Research in art history and art theories.

G 597 Research in Art History 3-9 cr. (R-18) Offered intermittently. Prereq., consent of instructor.

G 698 Methodologies in Art History 3-9 cr. (R-9) Offered intermittently. Prereq., consent of instructor. Investigation of the discipline of art history, its elements, boundaries, historiography, and practitioners.

Art Criticism

U 203L Introduction to Art Criticism 3 cr. Offered autumn and spring. Prereq., ART 150H-151H. Introduction to a range of methods and philosophies in art criticism.

UG 303L Contemporary Art and Art Criticism 3 cr. Offered autumn and spring. Prereq., ART 203L or consent of instructor. Survey of artists, art works, critics and theories from 1960's to the present. Introduction to major art movements and ideas of the Post-Modern era. Special emphasis given to firsthand experiences with art at local venues and direct engagement with contemporary art criticism published in newspapers, journals, magazines, and other media.

UG 403L Renaissance Theory and Criticism 3 cr. Offered intermittently. Prereq., ART 150H or 151H or consent of instructor. An exploration of the writings of major thinkers of the 14th-16th centuries, including theoretical treatises, works of literature, contracts, and personal diaries.

UG 452 Advanced Research in Art Criticism 2-6 cr. (R-6) Offered intermittently. Prereq., consent of instructor.

G 501 Graduate Critiques Seminar 1 cr. (R-4) Offered autumn and spring. Prereq., consent of instructor. Weekly meetings to critique graduate student work.

G 503 Critical Theories in the Visual Arts 3 cr. Prereq., consent of instructor. Seminar on the history of art criticism as a particular type of discourse about art. Contemporary theories of Modernism including Formalism, Abstraction, Marxism, and Social Realism; and Postmodernism including Deconstruction, Revisionism, and Feminism. Required of all M.A. and M.F.A. students in art.

Art Education

UG 314A Elementary School Art 3 cr. Offered autumn and spring. Visual art teaching methods for future elementary school teachers to include production of original works in a variety of media, methods of critique, curricular components, media management, resources and guided teaching experiences in a school setting.

UG 407 Teaching Art K-12 for Fine Arts Majors 3 cr. Offered autumn. Prereq., ART 101A, 102A, 103A; ART 150H, 151H; and junior

standing. Preparation for art specialists to include history and current trends in curriculum development, teaching procedures, child growth and development in art, resources, evaluation, advocacy and directed teaching experiences in school setting.

UG 408 Teaching Art K-12 for Fine Arts Majors 3 cr. Offered spring. Prereq., ART 101A, 102A, 103A, and 407. Continuation and practical application of ART 407.

UG 427 Advanced Research in Art Education 2-6 cr. (R- 12) Offered intermittently. Prereq., ART 101A, 102A, 103A and ART 314A or 407. Advanced research in art education topics and/or field experiences.

Summer Arts Education Institute

(Offered through College of Visual and Performing Arts)

G 581 Arts Education Institute 1 cr. (R-4) Same as DRAM, MUS 581. Offered summers. Open forum with national and regional speakers, panels, and symposia to promote discussion, understanding, and direction on significant national issues in the arts and art education.

G 582 Arts Education Seminar I 2 cr. (R-4) Same as DRAM, MUS 582. Offered summers. Topics vary.

G 583 Arts Education Seminar II 1-2 cr. (R-4) Prereq., ART 582. Same as DRAM, MUS 583. Continuation of ART 582.

G 584 Arts Education Seminar III 1-2 cr. (R-4) Prereq., ART 583. Same as DRAM, MUS 584. Continuation of ART 583.

G 585 Arts Education Seminar IV 1-2 cr. (R-4) Prereq., ART 584. Same as DRAM, MUS 585. Continuation of ART 584

G 586 Arts Education Seminar V 1-2 cr. (R-8) Same as DRAM, MUS 586. Continuation and synthesis of preceding seminars.

G 587 Arts Education Practicum 1 cr. (R-4) Same as DRAM, MUS 587. Offered summers. The active application of concepts and theories presented during the Arts Education Institute and the arts education seminars within a small group setting.

G 588 Arts Education Apprenticeship 1 cr. (R-4) Same as DRAM, MUS 588. Exploration of art forms to develop new artistic and communicative perceptions and awareness.

G 589 Arts Education Field Project 1 cr. (R-4) Same as DRAM, MUS 589, creative/research activities.

Faculty

Professors

- James Bailey, M.F.A., University of Wisconsin-Madison, 1989
- Mary Ann Bonjorni, M.F.A., University of California-Santa Barbara, 1986
- Hipolito Rafael Chacón, Ph.D., University of Chicago, 1995
- Julia Galloway, M.F.A., University of Colorado-Boulder, 1995
- Elizabeth Lo, M.F.A., The University of Montana, 1974
- Cathryn Mallory, M.F.A., University of Oklahoma, 1985
- Barbara Tilton, M.F.A., Vermont College of Norwich, 1996

Associate Professors

- Bradley Allen, M.F.A., Southern Illinois University, 2005
- Valerie Hedquist, Ph.D., University of Kansas, Lawrence, 1990
- Elizabeth Dove, M.F.A., Vermont College of Norwich, 1999

Assistant Professors

- Kevin Bell, M.F.A., University of Oregon-Eugene, 2002
- Trey Hill, M.F.A., San Jose State University, 2002

Adjunct Assistant Professors

- Karina Hean, M.F.A., New Mexico State University-Las Cruces, 2005
- Steven Krutek, M.F.A., The University of Montana, 2006
- Edgar Smith, M.A., The University of Montana, 2004: M.F.A., Ohio University, 1989

Emeritus Professors

- Marilyn Bruya, M.F.A., Bard College, 1986

- James G. Todd, M.F.A., The University of Montana, 1969

College of Visual and Performing Arts

Stephen Kalm, Dean

The College of Visual and Performing Arts is a comprehensive professional school committed to leadership in teaching, scholarship, professional performance and service at state, regional, national and international levels. The College is comprised of outstanding artist/faculty/scholars, staff and administrative personnel, all of whom are committed to providing a challenging, positive educational environment for students as well as an atmosphere characterized by collegiality, cooperation and interdependence.

The mission of the College of Visual and Performing Arts is to serve the University, the State of Montana, and the nation as a cultural center of national significance and as a leader in the performing and visual arts, arts education, and new media and technologies. In pursuit of this mission the College seeks to:

- serve students at The University of Montana-Missoula by teaching each of the performing and visual arts with rigor and devotion, and by offering preparation and experience that will enable students to take their places in the world of art, to perform and create with grace and maturity, and to teach with expertise and perspective;
- serve the University at large, as well as the community, state, region and nation, by presenting concerts, productions, and exhibitions of high quality, and by offering educational and research opportunities in the arts for non-majors as well as majors;
- provide national leadership in the arts by enhancing the excellence of traditional arts curricula, instruction and research with innovative and imaginative programs that utilize new technologies, new media, and new cultural and intellectual environments;
- inspire the pursuit of excellence, encouraging creativity and expression through the arts.

The College of Visual and Performing Arts offers an interdisciplinary masters program for teachers entitled the *Creative Pulse*. Offered during Summer sessions, the program is designed to develop Masters Teachers in the Arts, Sciences and Humanities. For more information, visit www.umt.edu/creativepulse

School of Theatre & Dance

- [Special Degree Requirements](#)
- [Suggested Course of Study](#)
- [Courses](#)
- [Faculty](#)

Mark Dean, Director

The School of Theatre & Dance is accredited by the National Association of Schools of Theatre (NAST) and is a member of the Association for Theatre in Higher Education (ATHE) and the United States Institute for Theatre Technology (USITT). The school is housed in the Performing Arts and Radio/Television Center, which includes three theatre/dance performance spaces and television/radio studios. The program is production-oriented with approximately ten major productions presented each year including contemporary, historical, period, musical, and experimental plays, as well as dance concerts. The Montana Repertory Theatre, a professional touring company based at UM, often involves students both on and off stage. The faculty is strong, possessing a diversity of educational and professional theatre and dance backgrounds.

The Bachelor of Arts with a major in Dance allows the student who plans to enter a dance career to select another major to complement that objective. The Bachelor of Arts with a major in Drama provides the student with a broad liberal arts education and a general focus in theatre. The degree allows the student to complete an additional major and may form the basis for further training on the graduate level. The Bachelor of Arts with a major in Drama and an area of specialization in Education Endorsement Preparation is designed for the student seeking teaching endorsement in the field of theatre. The Bachelor of Fine Arts with a major in Dance or Drama is a professionally oriented degree designed for the student who plans to pursue a career in theatre, dance, or a related field. Areas of specialization are: Acting, Design/Technology, Choreography and Performance, and Teaching. Graduate programs lead to the Master of Arts in Drama or Integrated Arts and Education and the Master of Fine Arts in Drama with areas of specialization in Acting, Design/Technology, or Directing.

Special Degree Requirements

Refer to graduation requirements listed previously in the catalog. See index.

Advisement

Each Theatre & Dance major must have a faculty advisor who is assigned by the school and who is usually from the student's area. The school, through its advisement program, often recommends non-theatre and dance electives and specific General Education courses to the student depending on the student's area. Majors may not take core or area-required courses on a credit/no credit basis.

Auditions and Portfolio Reviews

Actors, dancers, designers and technicians undergo periodic review in the form of auditions or portfolio presentations. These ongoing evaluations provide each student with the opportunity and challenge of individualized critiques from faculty and professional staff.

Writing Expectation

All students, unless exempted, must pass an approved writing course before attempting the Writing Proficiency Assessment (WPA). Students are exempted from this requirement by transferring more than 27 semester credits at the time of their initial registration at the University.

The following Theatre & Dance course is designated as a Writing course for 2009-2010. Students are cautioned that approved courses may change from year to year. To be used for General Education, a course must be listed as approved in the catalog and in the Course Schedule for the semester a student registers for it.

- DRAM 320H Theatre History I

The Following Theatre & Dance courses are designated as upper-division Writing courses for 2009-2010. Students are cautioned that approved courses may change from year to year.

- DAN 494 Junior/Senior Dance Seminar
- DRAM 321H Theatre History II

Bachelor of Arts with a major in Dance

The following courses constitute the complete Dance requirements for the Bachelor of Arts degree:

Dance	Credits
201A Beginning Composition (offered spring, odd-numbered years)	2
202 Rehearsal and Performance (performing in one piece equals one credit)	2
300 Modern III (or higher level)	15
301 Intermediate Composition (offered spring, odd-numbered years)	2
304 Ballet III (or higher level)	8
307 Jazz Dance III (or appropriate level)	2
334 20th-Century Dance (offered autumn, even-numbered years)	3
335L World Dance	3
340 The Science of Dance Movement (offered spring, even-numbered years)	3
397 Junior Creative or Research Project (students must complete projects for graduation)	3
420 Contact Improvisation	2
425 Dance Pedagogy (offered autumn, even-numbered years)	3
427 Teaching Movement in the Schools (offered autumn, odd-numbered years)	3
428 Internship in Children's Dance	2
494 Junior/Senior Dance Seminar (offered spring, odd-numbered years)	3
497 Senior Creative or Research Project (students must complete projects for graduation)	3
Drama	
107A section 02 or 05 Theatre Production I: Construction Crew (Costume) or 340 Intermediate Costume Construction	3
378 section 02 Stage Management Practicum I: Dance	1
Total	65

There is an Admission Audition which a prospective major must pass at the end of the first year to continue in the program. All students must take DAN 195: Freshman Seminar prior to auditioning for the major.

Bachelor of Arts with a major in Drama

The following courses constitute the complete Drama requirements for the Bachelor of Arts degree:

Drama	Credits
103A Introduction to Theatre Design	3
106A Theatre Production I: Run Crew	1
107A Theatre Production I: Construction Crew	3
108 Intro to House Management	1
202 Stagecraft I	3

203 Stagecraft II	3
207 Theatre Production II: Construction Crew	3
214 Acting I (or DRAM 111A)	3
220L Dramatic Literature I (Script Analysis)	3
320H Theatre History I	3
321H Theatre History II	3
379 Introduction to Directing	3
Drama/Dance/Media Arts electives (by advisement)	9
Senior project	
Total	41

Education Endorsement Preparation Specialization

The Education Endorsement Preparation specialization is designed for the student seeking an endorsement in the major teaching field of Drama.

Dance	Credits
327 Dance in Elementary Education	2
Drama	Credits
103A Introduction to Theatre Design	3
106A-107A Theatre Production (Running and Production Crews)	4
108 Introduction to House Management	1
202 Stagecraft I	3
203 Stagecraft II	3
210 Voice and Speech I	2
214-215 Acting I, II	6
220L Dramatic Literature I (Script Analysis)	3
244 Stage Makeup	2
320H-321H Theatre History I, II	6
327 Drama in Elementary Education	2
371 Stage Management I	2
379 Introduction to Directing	3
402 Methods of Teaching Theatre	2
Senior Project	
Total	44

For endorsement to teach Drama, a student also must gain admission to Teacher Education and Student Teaching and meet all the requirements for certification as a secondary teacher (see the School of Education section of this catalog).

The demand in Montana high schools for teaching of courses in this field is limited. Students should complete the required second endorsement (major or minor) in a field other than Economics, Geography, Journalism, Psychology or Sociology.

Bachelor of Fine Arts with a major in Drama

Normally, a student should declare intent to pursue the B.F.A. degree no later than the beginning of the second year of a four-year program. The student must declare an area of specialization, either acting or design/technology. Requirements for these areas are specified below.

A student may elect a special concentration in directing, music theatre, or another discipline in addition to the B.F.A. core and area specialization requirements. The program is designed in consultation with the student's advisor and must be approved by the faculty. The special concentration may require five years to complete.

A senior project is required of all B.A. students and B.F.A. students completing the acting or design/technology specialization. The senior project is usually production-related and has both practical and written components. Requirements for the project vary and are outlined in the School of Theatre & Dance Handbook.

The following courses are required of all B.F.A. students majoring in Drama with an area of specialization in Acting or Design/Technology:

Core Courses

Drama	Credits
106A Theatre Production I: Running Crew	1

107A Theatre Production I: Construction Crew	3
108 Introduction to House Management	1
202 Stagecraft I	3
203 Stagecraft II	3
206 Theatre Production II: Running Crew	1
214 Acting I (or DRAM 111A if Design/Tech)	3
220L Dramatic Literature I (Script Analysis)	3
320H-321H Theatre History I, II	6
379 Introduction to Directing	3
Total	27

Acting Specialization

Students who intend to pursue the acting specialization will normally enter the University as Bachelor of Arts students in Drama.

To be taken in addition to core courses:

Drama	Credits
210 Voice and Speech I	2
211 Voice and Speech II	2
215 Acting II	3
216A Production Acting I	1
244 Stage Makeup	2
310 Voice and Speech III	3
312 Physical Performance Skills I	2
313 Physical Performance Skills II	2
314 Acting III	3
315 Acting IV	3
316 Production Acting II	1
412 Physical Performance Skills III	3
414 Acting V (repeat once)	6
415 Acting VI (repeat once)	6
416 Production Acting III	1
420 Singing for Actors	2
435 Advanced Acting: Personal Performance	3
439 Advanced Acting: Professional Skills	3
Senior Project	
Sub total	48
Core Courses	27
Total	75

Design/Technology Specialization

Students wishing to pursue a B.F.A. with a specialization in design/technology must:

1. Complete a one-year residency at the UM-Missoula campus which includes a minimum of 12 credits in design/technology.
2. Attain a cumulative 2.5 overall GPA and a 3.0 GPA in design/technology coursework.
3. Present a theatre resume and portfolio consisting of class and production work.
4. Prepare a written statement explaining their educational and professional goals.

Students who intend to pursue the design/technology specialization will normally enter the University as Bachelor of Arts students in Drama.

To be taken in addition to core courses:

Drama	Credits
103A Introduction to Theatre Design	3
104 Drawing Fundamentals	3
106A Theatre Production I: Running Crew	1

107A Theatre Production I: Construction Crew (repeat once)	6
206 Theatre Production II: Running Crew	1
231 Drafting for the Theatre I	3
Choose one from:	3
331 Drafting for the Theatre II	
332 CAD for the Theatre	
341 Flat Pattern Design and Drafting	
307 Production Construction I	3
371 Stage Management I	2
Choose one from (Junior Project):	2
308 Production Team I	
309 Production Design I	
Choose one from (Senior Project):	3
408 Production Team II	
409 Production Design II	
Electives (minimum of 12 upper-division)	18
Subtotal	48
Core Courses	27
Total	75

Junior Projects

A junior project is required of all B.F.A. design/technology specialization students. The junior project is usually production-related and has both practical and written components. Requirements for the project are outlined in the School of Theatre & Dance Handbook.

Bachelor of Fine Arts with a major in Dance

The School of Theatre & Dance offers two areas of specialization, one in choreography and performance and the other in teaching. Each requires the same 48 credits in core courses, plus additional specified credits in each area of specialization. All majors are required to do a junior and a senior creative or research project and a production project.

Core Courses	Credits
Dance	
201A Beginning Composition (offered spring, odd-numbered years)	2
304 Ballet III (or higher level)	12
320 Improvisation (offered autumn, even-numbered years)	2
334 20th-Century Dance (offered autumn, even-numbered years)	3
335L World Dance	3
340 The Science of Dance Movement (offered spring, even-numbered years)	3
397 Junior Creative or Research Project (students must complete project for graduation)	3
420 Contact Improvisation (offered autumn, odd-numbered years)	2
425 Dance Pedagogy (offered autumn, even-numbered years)	3
426 Dance as a Healing Art (offered autumn, even-numbered years)	2
428 Internship in Children's Dance	2
494 Junior/Senior Dance Seminar (offered spring, odd-numbered years)	3
497 Senior Creative or Research Project (students must complete projects for graduation)	3
Drama	
106A Theatre Production I: Running Crew	1
107A section 02 or 05 Theatre Production I: Construction Crew (Costume) or 340 Intermediate Costume Construction	3
378 section 02 Stage Management Practicum I: Dance	1
Total	48

Choreography and Performance Specialization

Dance	Credits
202 Rehearsal and Performance (performing in one piece equals one credit)	2
300 Modern III	6
301 Intermediate Composition (offered autumn, odd-numbered years)	2

329 Conditioning: Pilates Mat (repeat once)	2
400 Modern IV	6
421 Advanced Improvisation	3
429 Advanced Techniques in Modern Dance	6
Drama	
111A Acting for Non-Majors I (or 214 Acting I)	3
Subtotal	30
Core Courses	48
Total	78

Teaching Specialization

Dance	Credits
300 Modern III (or higher level)	18
328 Teaching Creative Movement for People with Disabilities	1
425 section 02 Intermediate Dance Pedagogy (offered spring, odd-numbered years)	3
427 Teaching Movement in the Schools (offered autumn odd-numbered years)	6
491 Teaching Projects (assisting in a technique class for one semester)	2
Subtotal	30
Core Courses	48
Total	78

There is an admission audition which a prospective major must pass at the end of the first year to continue in this program. All students must take DAN 195: Freshman Seminar prior to auditioning for the major.

Special Projects

Junior and senior projects must be planned with the student's project advisor and all journals and papers will be submitted to that advisor. All choreography/performance B.F.A. candidates are required to choreograph for both projects, but the senior project must be a piece of choreography produced off-campus in the Missoula community. Teaching B.F.A. candidates must choreograph for the junior project and complete a teaching project in the Missoula community for the senior project. Students also are required to meet the campus-wide General Education requirements. Students are urged to consult with their advisors before General Education courses are selected.

Suggested Course of Study

The recommended curriculum for the **B.A., major in Dance** is:

First Year	
DAN 195 Freshman Seminar	1
DAN 200A Modern II (or DAN 100A, if needed)	6
DAN 201A Beginning Composition	2
DAN 204A Ballet II	8
DAN 207A Jazz Dance II	2
Electives and General Education	11
Total	30
Second Year	
DAN 204A Ballet II	4
DAN 300 Modern III (or 200A, if needed)	6
DAN 301 Intermediate Composition	2
DAN 307 Jazz Dance III	2
DRAM 378 section 02 Stage Management Practicum I: Dance	1
DAN 335L World Dance	3
Electives and General Education	12
Total	30

The recommended curriculum for the **B.A., major in Drama** is:

First Year

DRAM 103A Introduction to Theatre Design	3
DRAM 107A Theatre Production I: Construction Crew	3
DRAM 202 Stagecraft I	3
DRAM 203 Stagecraft II	3
DRAM 214 Acting I (or 111A Acting for Non-Majors I)	3
DRAM 220L Dramatic Literature I (Script Analysis)	3
Electives and General Education	14
Total	32

Second Year

DRAM 207 Theatre Production II: Construction Crew	3
DRAM 320H Theatre History I	3
DRAM 321H Theatre History II	3
Electives and General Education	23
Total	32

The recommended curriculum for the **Acting student in the B.F.A., major in Drama** is:

First Year

DRAM 106A Theatre Production I: Running Crew	1
DRAM 107A Theatre Production I: Construction Crew	3
DRAM 108 Introduction to House Management	1
DRAM 202 Stagecraft I	3
DRAM 203 Stagecraft II	3
DRAM 214-215 Acting I, II	6
DRAM 220L Dramatic Literature I (Script Analysis)	3
Electives and General Education	10
Total	30

Second Year

DRAM 206 Theatre Production II: Running Crew	1
DRAM 210-211 Voice and Speech I & II	4
DRAM 244 Stage Makeup	2
DRAM 312-313 Physical Performance Skills I, II.	4
DRAM 314-315 Acting III, IV	6
DRAM 320H Theatre History I	3
DRAM 321H Theatre History II	3
Electives and General Education	7
Total	30

The recommended curriculum for the **Design/Technology student in the B.F.A., major in Drama** is:

First Year

DRAM 103A Introduction to Theatre Design	3
DRAM 104 Drawing Fundamentals	3
DRAM 106A Theatre Production I: Running Crew (two semesters)	2
DRAM 107A Theatre Production I: Construction Crew	6
DRAM 108 Introduction to House Management	1
DRAM 202 Stagecraft I	3
DRAM 203 Stagecraft II	3
DRAM 220L Dramatic Literature (Script Analysis)	3
DRAM 231 Drafting for the Theatre I	3
Electives and General Education	6
Total	33

Second Year

DRAM 107A Theatre Production I Construction Crew	3
DRAM 206 Theatre Production II: Running Crew (two semesters)	2
DRAM 307 Production Construction I	3