

equipment to execute the product. During this course, students utilize many of the basic manufacturing processes to produce primary and secondary materials for manufacturing. A lab fee is required.

MANF 1043 Manufacturing Power & Equipment Systems 3 credits S
2 lecture, 2 lab hours per week

This course introduces students to manufacturing power systems and to the use of the advanced tools of manufacturing production. Students plan, design, implement, use, and troubleshoot manufacturing power systems, equipment systems, and control systems. A lab fee is required.

MANF 1053 Manufacturing Materials 3 credits S
2 lecture, 2 lab hours per week

This course introduces students to manufacturing materials, materials testing, and materials science. Students engage in primary and secondary processing and manufacturing projects and conduct experiments on various manufacturing materials. A lab fee is required.

MANF 1073 Manufacturing Equipment Maintenance & Operation 3 credits S
2 lecture, 2 lab hours per week

Prerequisite: MANF 1043 Manufacturing Power & Equipment Systems. This course provides students with a comprehensive knowledge of manufacturing equipment safety, maintenance and operations procedures, control systems, as well as teamwork, ethics, and leadership abilities expected in the field. A lab fee is required.

MANF 1083 Manufacturing, Engineering, Design & Problem Solving 3 credits F
2 lecture, 2 lab hours per week

Prerequisite: MANF 1023 Design for Manufacturing. This course repeats previous safety training and introduces new concepts related to engineering and design and problem solving within the context of previous learning. Students solve a given manufacturing challenge that requires the use of advanced manufacturing technology systems, design skills, communication skills, and a thorough understanding of manufacturing materials, processes, and techniques. A lab fee is required.

MANF 1303 Industrial Safety 3 credits S/F
2 lecture, 2 lab hours per week

Prerequisite: None. This course covers all of the typical topics required by OSHA for the OSHA 10 Hour Industrial Safety Card. Students must successfully complete six lab exercises where they demonstrate competency in core course objectives through practical applications. A lab fee is required.

MANF 2012 Basic Hydraulics & Pneumatics 2 credits F/S
1 lecture, 2 lab hours per week

Prerequisites: DMTH 1033 Developmental Math III with a grade of "C" or better or equivalent placement scores. This course introduces the student to fluid power principles and components and presents basic circuit design through the use of symbols and schematic diagrams to build a foundation for career work in fluid power technology. The safe operation of fluid power machines, tools and equipment is emphasized. Students must complete six lab exercises where they demonstrate competency in core course objectives through practical applications. A lab fee is required.

- MANF 2023 Mechanical Drives & Bearings** **3 credits** **S**
2 lecture, 2 lab hours per week
Prerequisites: DMTH 1083 Intermediate Algebra. This course focuses on the practical use of machines and mechanical components by manufacturing maintenance mechanics and technicians. Topics include power belting, pulleys and drive arrangements, chain drives, shafting; dynamic shaft seals, disc and shoe brakes, sliding, ball, and roller bearings, lubricants, couplings, clutches, gear drives, speed reducers. and conveyor drive systems. The safe operation of industrial machines, tools and equipment is emphasized. A lab fee is required.
- MANF 2033 Applied Electricity & Electronics** **3 credits** **S**
2 lecture, 2 lab hours per week
Prerequisite: DMTH 1033 Developmental Math III with a grade of "C" or better or equivalent placement score. This course introduces the student to electrical laws and theories pertaining to DC and AC circuits which apply to a broad range of manufacturing disciplines. Emphasis is given to the use of standard electrical tests, electrical equipment, and troubleshooting procedures. Students must complete six lab exercises where they demonstrate competency in core course objectives through practical applications. A lab fee is required.
- MANF 2044 Programmable Logic Controllers** **4 credits** **S**
2 lecture, 4 lab hours per week
Prerequisite: MANF 2033 Applied Electricity and Electronics. This course introduces students to entry-level to intermediate-level PLC programming and applications. Students will learn to identify components of a PLC system, do a simple setup and configuration of a PLC, understand and make minor modifications to a PLC program, design and build a process control system using a PLC to control the process, and design a simple automated process. Students must complete six lab exercises where they demonstrate competency in core course objectives through practical applications. A lab fee is required.
- MANF 2053 Blueprint Reading & GD&T** **3 credits** **(tba)**
2 lecture, 2 lab hours per week
Prerequisite: MANF 1023 Design for Manufacturing. This course presents the basic skills of blueprint reading, fraction/decimal/metric and inch conversions, the use of measuring devices, and the basic upper and lower control limits of geometric dimensioning as they apply to machining tasks. Upon completion the student will have the ability to interpret drawings and use the basic instruments to determine acceptance criteria specified on parts drawings. A lab fee is required.
- MANF 2103 Process Controls for Integrated Systems** **3 credits** **(tba)**
2 lecture, 2 lab hours per week
Prerequisites: DMTH 1033 Developmental Math III. Co-requisite: MANF 2033 Applied Electricity & Electronics. This course presents the application of electrical motor and mechanical devices in industrial control circuits with emphasis given to the principles of electrical safety, calculations and diagrams; power generating equipment, electro-mechanical control devices, preventive maintenance and systematic troubleshooting of electrical circuits. Students will be involved in completing a team project where acquired skills will be utilized. A lab fee is required.

MANF 2113 Advanced Programmable Logic Controllers 3 credits (tba)
2 lecture, 2 lab hours per week

Prerequisite: MANF 2043 Programmable Logic Controllers. This course emphasizes programmable logic controllers and the local area network as they apply to the field of industrial controls. Students learn the principles and applications of control systems in achieving automation within a production system. Systems included in the course are stepper motors, programmable logic controllers, microprocessor, computers and feedback systems. The safe operation of industrial PLCs, testing equipment, and hand tools is emphasized. A lab fee is required.

MANF 2133 Technical Graphics & CAD Fundamentals 3 credits (tba)
2 lecture, 2 lab hours per week

Prerequisite: MANF 1023 Design for Manufacturing. This course introduces students to the detailing skills commonly used by drafting technicians and to the features and basic usage of computer-aided design (CAD) software systems. Areas of study include lettering, sketching, proper use of equipment, and geometric constructions with emphasis on orthographic drawings that are dimensioned and noted to ANSI standards. A lab fee is required.

MANF 2143 Computer-Aided Manufacturing and Design 3 credits (tba)
2 lecture, 2 lab hours per week

Prerequisite: None. This course covers the study and application of Computer Aided Manufacturing (CAM) 2D Geometry using MasterCAM software. Topics include CAM concepts, drawing standards, drawing with precision, editing, view control, measurement, text and annotations, dimensioning, drawing layout and plotting. Emphasis is placed on the application of standards to graphical communications and the development of hands-on skills using 2D Geometry. Safety procedures and practices are emphasized. A lab fee is required.

MANF 2213 Lean Manufacturing 3 credits (tbd)
2 lecture, 2 lab hours per week

Prerequisite: None. This course teaches students the key components of a quality organization, the relationship between processes and products through different roles in a manufacturing company and describes the basic principles of lean manufacturing, SPC, 5S, cellular manufacturing, including the characteristics of cells and pull systems and compares them to traditional manufacturing approaches. Students must successfully demonstrate competency in core course objectives through practical applications. A lab fee is required.

MANF 2983 Internship 3 credits F/S

Prerequisite: 2.0 GPA or higher and approval of an Internship Project Application submitted by the date listed in the Academic Calendar prior to the semester of intended enrollment.

Registered students must be in their final semester of enrollment. A faculty member serves as facilitator to help students develop a formal internship plan which documents learning objectives and course expectations. Internship objectives vary by degree program option, but all require students to apply general education and technical knowledge and skills in an actual work environment. Students must adhere to the policies and procedures of the industry or business in which they are placed, as well as to those of the College. Students are expected to provide a written and oral presentation at the conclusion of the course. The MSCC faculty facilitator assigns the final course grade based upon the student's timeliness in meeting internship objectives, his/her application of technical skills, the demonstration of general education

outcomes defined for program graduates, and on feedback from the business/industry site supervisor. Internship assignments will be made within the first two weeks of the semester, with actual work time requiring a minimum of 60 hours spanning 9 to 10 weeks. Students should not begin an internship experience prior to receiving the necessary prior approvals from the project facilitator and appropriate dean. Successful completion of this course requires a grade of C or better. A lab fee is required.

MANF 2993 Capstone Learning Experience 3 credits F/S

Prerequisite: 2.0 GPA or higher and approval of a Capstone Learning Project Application submitted by the date listed in the Academic Calendar prior to the semester of intended enrollment. Registered students must be in their final semester of enrollment. Students, with the assistance of a faculty facilitator, choose a project, identify project stakeholders, and develop and execute a formal project plan. Students maintain a journal which documents goals, progress, and barriers encountered. Capstone project assignments will be made within the first two weeks of the semester, with actual work time spanning 9 to 10 weeks. Most projects include an oral and/or written presentation at the conclusion of the semester. The MSCC faculty facilitator assigns the final course grade based upon the student's timeliness in meeting internship objectives, his/her application of technical skills, the demonstration of general education outcomes defined for program graduates, and on feedback from the project stakeholders.

Mathematics

Required placement score or successful completion of designated math prerequisite and DRDG 1023 Developmental Reading are prerequisites for the following classes.

Developmental Mathematics, See Developmental Education, p. 211

MATH 1113 College Algebra 3 credits F/S
3 lecture hours per week

Prerequisite: DMTH 1033 Developmental Math III with a grade of "C" or better or ACT math score of 19 or equivalent COMPASS or ASSET score. Course content includes operations on functions and graphing functions; linear, rational, quadratic, higher-degree polynomial, absolute value, exponential, and logarithmic equations; linear, rational, and quadratic inequalities; applications of systems of equations and matrices. Real-life problems are integrated within various topics. This course incorporates the use of technology to supplement and enhance conceptual understanding, visualization, and inquiry.

MATH 2103 Survey of Calculus 3 credits S
3 class hours per week

Prerequisite: MATH 1113 College Algebra with a grade of "C" or better. This is a basic calculus course focusing on applications and is generally needed for students majoring in business, education, health sciences, or social sciences. Course content includes a review of major functions, their graphs and applications; continuity and limits, differentiation of polynomial, exponential and logarithmic functions; using derivatives for curve sketching, determining rates of change, and optimization problems; anti-derivatives, indefinite and definite integrals,

applications of definite integration. This course incorporates the use of technology to supplement and enhance conceptual understanding, visualization, and inquiry.

MATH 2113 Math for Teachers I **3 credits** **F**
3 lecture hours per week

Prerequisite: MATH 1113 College Algebra with a grade of "C" or better. Course content includes logic and mathematical reasoning, problem-solving, sets, functions, and number theory. Emphasis is placed on instructional methodology to support student learning.

MATH 2115 Calculus I **5 credits** **F**
5 class hours per week

Prerequisite: MATH 1113 College Algebra with a grade of "C" or better or ACT math score of 24 or better. This course is intended for students who wish to major in mathematics, natural science, engineering and related technology, or secondary mathematics education. Course content includes functions, limits, continuity, asymptotes, differentiation, implicit differentiation, critical points, anti-derivatives, definite and indefinite integrals, and inflection points. This course includes applications of the derivative and integral, such as slopes and rates of change; finding maximum, minimum, and relative extrema; curve sketching using Calculus techniques; exponential growth and decay; optimization; and calculating the area between curves. This course uses a graphing calculator to supplement and enhance conceptual understanding, visualization, and inquiry.

MATH 2123 Math for Teachers II **3 credits** **S**
3 lecture hours per week

Prerequisite: MATH 2113 Math for Teachers I with a grade of "C" or better. A continuation of MATH 2113, course content includes exponents, decimals, probability, statistics, geometry, measurement, and applications of mathematics. Emphasis is placed on instructional methodology to support student learning. This course uses a geometry software package.

MATH 2124 Calculus II **4 credits** **S**
4 class hours per week

Prerequisite: MATH 2115 Calculus I with a grade of C or better. This course is intended for students who wish to major in mathematics, a natural science, engineering and related technology, or secondary mathematics education. Course content includes integration with several techniques; applications of integration; sequences and infinite series; convergence tests; Taylor series; radius on convergence; and applying calculus concepts to polar coordinates, parametric equations, and vectors. This course uses a graphing calculator to supplement and enhance conceptual understanding, visualization, and inquiry.

MATH 2133 Introduction to Statistics **3 credits** **S**
3 class hours per week

Prerequisite: MATH 1113 College Algebra with a grade of "C" or better. An algebra-based course involving the presentation and interpretation of data, probability, sampling, basic inference, correlation and regression, and analysis of variance, this course is generally needed for students majoring in business, education, health sciences, or social sciences. Course content includes probability, binomial and normal distributions, sampling, confidence intervals, hypothesis testing, and linear regression. Emphasis is placed on methods of collecting, organizing, and analyzing data in order to make data-driven decisions. Applications are

integrated in all topics. This course incorporates the use of technology to supplement and enhance conceptual understanding, visualization, and inquiry.

MATH 2303 Statistical Methods for Business

This course has been replaced by MATH 2133 Introduction to Statistics for students entering on or after Fall 2011.

MATH 2343 Business Calculus

This course has been replaced by MATH 2103 Survey of Calculus for students entering on or after Fall 2011.

Music

Required placement test scores or successful completion of DRDG 1023 Developmental Reading and DENG 1053 Developmental English is a prerequisite for all courses unless otherwise noted.

MUSC 1103 Music Appreciation

3 credits

F/S

3 lecture hours per week

Designed for the student who has little or no formal music training or experience, this course appeals to all students who are interested in acquiring an understanding and appreciation of the relationships between music and culture as well as of the development of society. Students learn to appreciate music through an introduction to the major composers and to analyze the relationships between music and culture.

Pharmacy Technology

See Allied Health Sciences, page 196

Philosophy

See Humanities, page 217

Physical Science

Required placement test scores or successful completion of DRDG 1023 Developmental Reading II and DENG 1053 Developmental English II is a prerequisite for all courses unless otherwise noted.

PSCI 1214 Physical Science

4 credits

F/S

3 lecture, 2 lab hours per week

Prerequisite: DMTH 1033 Developmental Math III with a grade of "C" or better or equivalent placement test score. Corequisite: PSCI 1210 Physical Science Lab. This course is designed for non-science majors and serves as an overview of the main topics in physics, chemistry, astronomy, and meteorology. Emphasis is placed on the fundamental principles and concepts of physics and chemistry. The laboratory component provides students with applications of theory and enables them to use general principles on practice. A lab fee is required.

PSCI 1224 Earth Science **4 credits** **F/S**

3 lecture, 2 lab hours per week

Prerequisite: DMTH 1033 Developmental Math III with a grade of "C" or better or equivalent placement test score. Corequisite: PSCI 1220 Earth Science Lab. This course is designed for non-science majors to foster understanding of basic geologic principles. Course content includes the scientific method; earth structure and processes; tectonics, earthquakes, volcanism, glacial formation; weathering, and erosion; atmosphere, climate, and weather; rocks, minerals, and fossils; and the oceans. A lab fee is required.

PSCI 1254 Physics I **4 credits** **S**

3 lecture, 2 lab hours per week

Prerequisite: DMTH 1033 Developmental Math III with a grade of C or better in or equivalent placement test score. Corequisite: PSCI 1250 Physics Lab. This algebra-based college level physics course introduces the basic concepts of mechanics in one- and two- dimensions; linear and rotational motion; work, energy and power; thermodynamics; mechanical waves and sound; and fluid mechanics. The laboratory component provides students with applications of theory and enables them to use general principles on practice. A lab fee is required.

Political Science

Required placement test scores or successful completion of DRDG 1023 Developmental Reading II and DENG 1053 Developmental English II is a prerequisite for all courses unless otherwise noted.

POLS 1143 American Government **3 credits** **F/S**

3 lecture hours per week

Through the study of the framework of the U.S. Constitution, this course presents a study of basic principles of American government with emphasis placed on the organization, processes, and functions of the national government.

Psychology

See Social Science, p. 214

Renewable Energy Technology

Required placement test scores or successful completion of DRDG 1023 Developmental Reading II and DENG 1053 Developmental English II is a prerequisite for all courses unless otherwise noted.

ENER 1013 Introduction to Renewable Energy **3 credits** **F**

2 lecture hours, 2 lab hours per week

This course provides students with an overview of renewable energies, including biomass, geothermal, wind power, solar power, tidal power, nuclear power, fuel cells, and hydropower. Students will explore principles and concepts of energy consumption, production, and conversion as well as apply current and emerging renewable energy technologies (RET) through the completion of experiments and design projects. Topics include energy production, costs, consumption, conversion, and assessments as well as the social and cultural impact of renewable energies.

ENER 1033 Biofuels **3 credits** **F**

2 lecture hours, 2 lab hours per week

This course provides students with a historical perspective and investigations into early applications of biofuels like biodiesel, ethanol, methanol, methane, and hydrogen. Emphasis is placed on the study of biochemical methods involved in the generation of ethanol, and other biofuels from feedstocks, animal fats, waste vegetable oil, and other waste products. Students will investigate the potential of different raw materials and plants as fuel sources, examine the process through which plant matter is converted into fuel, examine the environmental and social consequences of using various biofuels, and explore emerging and future alternative energy fuels derived from biomass like grass, wheat straw, fungi, and algae. A lab fee is required.

ENER 2003 Biomass and Feedstocks **3 credits** **S**

2 lecture hours, 2 lab hours per week

Prerequisite: BIOL 1124 Plant Biology. The course includes a detailed study of the form, structure, function, and reproduction of plants and the production, handling, and maintenance of biomass in the alternative fuels industry. Emphasis is placed on the study of types of biomass (annual crops, forestry byproducts, organic waste, landfill gas, etc.) economic costs, sustainability, waste products, and employment issues. Students will investigate photosynthesis, generate biomass gases, convert energy and mass from one form to another, examine the conditions that produce the highest conversion yields, discover the most efficient manners of producing biodiesel, and identify and conduct experiments with other potential catalysts. A lab fee is required.

ENER 2043 Bioprocess Practices **3 credits** **S**

2 lecture hours, 2 lab hours per week

This course involves in-depth examination of the methods utilized in the production of biofuel throughout the plant manufacturing process. The laboratory provides a hands-on experience of producing and testing biofuel. A lab fee is required.

ENER 2983 Internship **3 credits** **S**

Prerequisite: 2.0 GPA or higher and approval of an approved Internship Project Application submitted by the date listed in the Academic Calendar prior to the semester of intended enrollment. Registered students must be in their final semester of enrollment. A faculty member serves as facilitator to help students develop a formal internship plan which documents learning objectives and course expectations. Internship objectives vary by degree program option, but all require students to apply general education and technical knowledge and skills in an actual work environment. Students must adhere to the policies and procedures of the industry or business in which they are placed, as well as to those of the College. Students are expected to provide a written and oral presentation at the conclusion of the course. The MSCC faculty facilitator assigns the final course grade based upon the student's timeliness in meeting internship objectives, his/her application of technical skills, the demonstration of general education outcomes defined for program graduates, and on feedback from the business/industry site supervisor. Internship assignments will be made within the first two weeks of the semester, with actual work time requiring a minimum of 60 hours spanning 9 to 10 weeks. Students should not begin an internship experience prior to receiving the necessary prior approvals from the project facilitator and appropriate dean. Successful completion of this course requires a grade of C or better.

ENER 2993 Capstone Learning Experience 3 credits S

Prerequisite: 2.0 GPA or higher and approval of an approved Capstone Learning Project Application submitted by the date listed in the Academic Calendar prior to the semester of intended enrollment. Registered students must be in their final semester of enrollment.

Students, with the assistance of a faculty facilitator, choose a project, identify project stakeholders, and develop and execute a formal project plan. Students maintain a journal which documents goals, progress, and barriers encountered. Capstone project assignments will be made within the first two weeks of the semester, with actual work time spanning 9 to 10 weeks. Most projects include an oral and/or written presentation at the conclusion of the semester. The MSCC faculty facilitator assigns the final course grade based upon the student's timeliness in meeting internship objectives, his/her application of technical skills, the demonstration of general education outcomes defined for program graduates, and on feedback from the project stakeholders.

Social Science

Required placement test scores or successful completion of DRDG 1023 Developmental Reading II and DENG 1053 Developmental English II is a prerequisite for all courses unless otherwise noted.

ANTH 2013 Cultural Anthropology 3 credits S
3 lecture hours per week

This course covers the study of culture and cultural diversity, social institutions, ethnocentrism, cultural relativity, and methods of ethnographic fieldwork. Specific topics include communication, gender, marriage and family, economic and political systems, religion, inequalities of class and race/ethnicity, and globalization. Students will gain critical thinking skills that will allow them to analytically and holistically relate cultural anthropological concepts to their everyday lives.

GEOG 1133 World Geography 3 credits F/S
3 lecture hours per week

This survey course's content emphasizes the relationship of human beings to their geographic environment. Students study various climatic and geographic regions of the world in relation to their influence on human activity.

PSYC 1403 Introduction to Psychology 3 credits F/S
3 lecture hours per week

Designed to introduce the basic concepts of modern psychology and applications of scientific principles and theories as they relate to the complexity of human behavior. This course explores the interaction of the biological and environmental influences on behavior, and examines the effect of the human brain on normal and abnormal behavior. Major psychological disorders are also introduced as to their causes and challenges.

PSYC 2413 Human Development 3 credits S
3 lecture hours per week

Prerequisite: PSYC 1403 Intro to Psychology. This course in developmental psychology focuses on human development from infancy through late adulthood. It presents the lifespan developmental perspective and emphasizes the cognitive, social, physical, and emotional processes that occur throughout the human lifespan.

SOCI 1303 Introduction to Sociology**3 credits****F/S****3 lecture hours per week**

This introductory course provides an overview of the field of sociology and covers covers major sociological approaches, methods of sociological research, the organization of social life, social inequality, and social institutions such as the family, economics, politics, poverty, and the environment. Specific topics include socialization, demography, deviance, urbanization, culture, ethnicity, and racism.

Spanish

See Humanities, p. 214

Study Skills

See Developmental Education, p. 212

Welding Technology

Required placement test scores or successful completion of DRDG 1023 Developmental Reading and DENG 1053 Developmental English is a prerequisite for all courses unless otherwise noted. Certificate of Proficiency students without COMPASS scores may substitute the following: KeyTrain Level 4 or WorkKeys Level 3 in Reading for Information (RI), and Locating Information (LI) or WorkKeys. Manufacturing classes minimize the lecture component to engage students in intensive hands-on learning activities relating theory to practical hands-on applications involving skills development, critical thinking, and application of theory.

WELD 1003 Bench Work and Welding Processes**3 credits****F****2 lecture, 2 lab hours per week**

Prerequisites: None. This course introduces bench work as part of a multi-skilled technical training program designed to enable students to master hand-tool and power equipment skills utilized in the welding discipline. The student will experience the common welding processes used in today's welding, fabrication, and repair industries. Through instructor-led demonstrations and hands-on applications, the student will experience each welding process and understand the progression of each new welding course in the program. A lab fee is required.

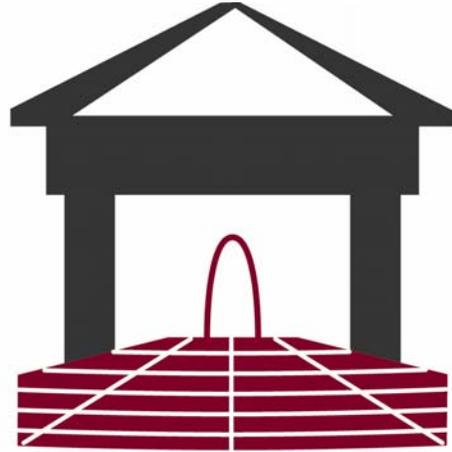
WELD 1103 Introduction to Welding Applications**3 credits****F****2 lecture, 2 lab hours per week**

Prerequisites: None. Designed for beginning welders in the manufacturing production and maintenance industry, this course provides basic skills and fundamental knowledge in oxy-acetylene welding, cutting and brazing, Shielded Metal Arc welding, Gas Metal Arc welding and Gas Tungsten Arc welding. Safety procedures and practices are emphasized. A lab fee is required.

WELD 1123 Shielded Metal Arc Welding: SMAW**3 credits****S**

Prerequisites: WELD 1103 Introduction to Welding Applications or completion of an introductory welding skills test. This course introduces the student to arc welding terminology, processes, power sources, and equipment and provides a comprehensive, hands-on training course in shielded metal arc welding techniques and problem solving. A lab fee and a testing fee are required.

- WELD 1133 Gas Metal Arc Welding: GMAW** **3 credits** **F**
2 lecture, 2 lab hours per week
Prerequisites: WELD 1123 Shielded Metal Arc Welding: SMAW or proof of experience and successful completion of a welding skills test. This course is a comprehensive, hands-on training program in Gas Metal Arc Welding commonly referred to as MIG welding. Students will learn applications and advantages of gas metal arc welding, be able to identify the variables involved in the GMAW process, and explain the uses for equipment and supplies required for GMAW applications. A lab fee is required.
- WELD 1143 Gas Tungsten Arc Welding I: GTAW** **3 credits** **F/S**
2 lecture, 2 lab hours per week
Prerequisites: WELD 1133 Gas Metal Arc Welding: GMAW or proof of experience and successful completion of a welding skills test. This course provides comprehensive, hands-on training in DC and AC Gas Tungsten Arc Welding, commonly referred to as TIG welding. Students will learn applications and advantages of gas tungsten arc welding by being able to identify the variables involved in the GTAW process and explain the uses for equipment and supplies required for GTAW applications. A lab fee and a testing fee are required.
- WELD 1203 Blueprint Reading for Welding: Joints & Symbols** **3 credits** **F/S**
2 lecture, 2 lab hours per week
Prerequisites: None. This course introduces the student to a comprehensive training program on joint design, welding terms and welding symbols. The student will be able to identify the variables in combining weld symbols, weld types, and non-destructive examination symbols. Students will learn how blueprint reading is used by the welder in the welding industry. A lab fee is required.
- WELD 1213 Advanced Welding: Fabrication** **3 credits** **F**
2 lecture, 2 lab hours per week
Prerequisites: WELD 1143 Gas Tungsten Arc Welding I: GTAW or proof of experience and successful completion of a welding skills test. This course allows advanced students a hands-on training program in all aspects of the following welding processes: SMAW, GMAW, OAW, TB, OC, PAC, GTAW, and FCAW and their procedures. Students will learn the applications and advantages of these different processes and their safe and proper use in the welding industry. Each student will receive instruction on the proper set-up and troubleshooting of these welding processes. Additionally, students will be given the opportunity to work individually and as a team to engage in designing and fabricating projects with these processes. A lab fee is required.
- WELD 1223 Gas Tungsten Arc Welding II** **3 credits** **S**
2 lecture, 2 lab hours per week
Prerequisites: WELD 1143 Gas Tungsten Arc Welding I: GTAW or proof of experience and successful completion of a welding skills test. This advanced course introduces the student to Gas Tungsten Arc Welding equipment and is a comprehensive hands-on training course in GTAW techniques. Students will learn about power sources, equipment, and procedures which will include proper industrial safety measures. Each student will receive instruction in flat, horizontal, vertical, and overhead in both ferrous and non-ferrous metals. Additionally, students will learn to identify, troubleshoot, and solve different problems in all aspects of GTAW. A lab fee is required.



Mid-South

Community College

College Personnel

Chapter 11

Full-Time Faculty and Staff

(Note: Academic credentials are listed for administrators and for employees who teach as part of their assigned duties)

Glen F. Fenter, President

Ed.D., Education Administration, University of Arkansas
M.S.E., Administration, University of Arkansas
B.A., Education, Hendrix College

Barbara Baxter, Executive Vice President

Ed.D., Curriculum and Instruction, University of Memphis
M.A., B.A., English, University of Memphis

Susan K. Marshall, CPA, Vice President for Finance and Administration

B.S., Accounting, Arkansas State University

Judith Scherer, Vice President for Academic Affairs

Ph.D., Applied Cultural Anthropology, University of South Florida
M.A., Gerontology, University of South Florida
B.A., Psychology, University of South Florida

Dr. Dwayne Scott, Vice President for Student Affairs

Ed. D., Educational Leadership, Arkansas State University
M.P.A., Public Administration, Arkansas State University

Azah Abanda, Natural Science Instructor

Ph.D, Environmental Sciences, Arkansas State University
M.S., Geochemistry, University of Capetown
B.S., Geology/Geography, University of Buea

Mary Adcox, Executive Director of Institutional Advancement

Robin Allen, Career Coach

Patrick Alston, Medical Professions Instructor

A.A., Nursing, Norfolk State University, L.P.N

Leslie Anderson, Registrar

Clay Andrus, Graphic Designer

Chasity Dean Anthony, Title III Student Support/Curriculum Development Specialist

M.S.E., Educational Leadership, Curriculum and Instruction, Arkansas State University
B.S.E., Secondary Education, Arkansas State University

Beth Arnold, Administrative Assistant to the Executive Vice President and Coordinator of Facilities Scheduling

Patricia Baker, Institutional Services Assistant

John Barber, Aviation Grant Manager

Tyechia Barnes, Career Pathways Employability Counselor

Christian Barnoud, Renewable Energy Instructor

M.B.A., Finance, University of Memphis

Engineering Diploma, Chemical Engineering, ENSCP, Paris, France

Anabeth Bartholomew, Adult Education Testing Coordinator

Kelly Bearden, Manufacturing Technology Instructor

A.A.S., Machine Shop, University of Arkansas – Fort Smith

Gilbert Beaver, Welding Instructor

David Bond, Aviation Instructor

B.S., Industrial Technology of Engineering, Southern Illinois University-Carbondale

A.A., Aircraft Systems Maintenance Technology, Community College of the Air Force

License: Airframe and Powerplant; Certificate: Occupational Instructor

Shanna Boney, Career Coach

Shermel Brown, Mathematics Instructor

M.S., Mathematics, Arkansas State University

B.S., Technology, Arkansas State University

Jackie Brubaker, Director of Financial Aid and Human Resources

Carlis Darrin Burns, Database Manager

Donna Burns, Fiscal Support Specialist

Pam Capps, Medical Assisting Technology Instructor

A.A., Business, East Arkansas Community College

Certificate: Medical Assistant

Jason Carmichael, Dean of Students

M.S., Health, Physical Education, & Recreation, Emporia State University (Kansas)

B.A., Education, Harding University

Jason Carr, Information Systems Technology Instructor

M.A., Instruction & Curriculum Leadership, University of Memphis

B.A., History, University of Memphis

Tabitha Casey, Director of Campus Safety

Sanjay Chowdhury, Information Systems Instructor

M.S., Workforce Education, Southern Illinois University

B.S., Information Systems Technologies, Southern Illinois University

B.S., Mathematics, University of Chittagong, Bangladesh

A.A.S., Computer Information Systems (CIS) and Web Page Design (Certificate), Lake Land College

Suvra Das Chowdhury, Food Preparation Coordinator

Paul Cierzniewski, Aviation Instructor

Licenses: Airframe, Powerplant, Private Pilot

Patti Coleman, Director of Advancement

Roshell Coleman, Coordinator of Career Pathways

Letory Collins, Administrative Specialist, TRIO Educational Opportunity Center

Tom Cook, Computer Support Technician

Paula Cosgrove, Adult Basic Education Instructor

B.S.E., Education, Memphis State University

Wendy Crawford, Business Manager

LeChelle Davenport, Director of Financial Aid

Chris Davis, Information Systems Technology Instructor

M.B.A., Franklin University

B.A., Business Administration/Information Systems, Ouachita Baptist University

Certifications: CIW, Microsoft

Chris Davis, Work-Study Coordinator

Verna Davis, Human Resources Analyst

Veronica Davis, Director of Title III Grants

Ray Duch, Information Systems Technology Instructor

B.S., Agriculture, University of Tennessee at Martin

Certifications: A+ and CCAI

Callie Dunavin, Director of Arkansas Delta Training and Education Consortium (ADTEC)

Stephanie Eley, Program Coordinator, Communications & Education

Graduate Certificate, CC Teaching & Leadership

M.S., Communication, University of Southern Mississippi

B.A., Speech Communication, University of Southern Mississippi

John Easley, TRIO Student Support Services Counselor

Mary Field, Communications Instructor

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B.S.E., Arkansas State University

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