

Dual Credit Courses



KLAMATH
Community College

Klamath Community College 2025-2026

Dual Credit Supported Courses Available for Articulation

ACCOUNTING

BUS 104 – Practical Accounting

2 credits

Designed to introduce students to the basic functions of the bookkeeping and accounting process-journalizing transactions into the journal, posting to the general ledger, analyzing and adjusting the ledger, preparing simple financial statements for a service business. No previous accounting is required

BUS 105 – Introduction to Personal Finance

2 credits

Introduces students to the elements of personal financial planning including the creation of a personal vision, and a plan for attaining the vision. Includes the appropriate evaluation of financial products such as investing, debt, risk management and budgeting.

AUTOMOTIVE COURSES

AMT 101 – Workplace Skills Training

4 credits

Workplace Skills Training is in direct response of automotive industry needs for students to possess the basic skills indicative of certified automotive technicians. The course design encourages students in developing life skills necessary to locate gainful employment in the automotive industry. Instructional focus includes: seeking and applying for employment, preparing resumes, filling out applications, interviewing techniques, personal appearance and communication skills. Furthermore, emphasis is placed upon the skills required to retain industry employment including: punctuality, regular attendance, following directions, general shop practices, productivity, hourly and flat rate compensation, time clock management, problem solving, employee loyalty and responsibility, employee professionalism and good customer service skills. The class will provide theory and related hands-on experience on live vehicles as the foundation for advanced automotive courses.

AMT 110 – Automotive Electrical/Electronic Systems

8 credits

This course provides instruction in basic electricity and electronic systems. This course provides the theory and operating characteristics of automotive electrical and electronic systems required for successful completion of ASE area A6: Electrical/Electronic Systems. Instructional focus includes: electrical principles, basic circuit configuration, Ohm's law, electrical components, wiring and wiring repairs, common tools and testing equipment, basic testing and problem isolation. The student will work with multimeters and other electrical test equipment in developing troubleshooting techniques required for successful diagnosis of

automotive starting and charging systems, advanced electronic systems, automotive processing units, multiplexing, electrical accessories and body/chassis electronic control systems. Corequisite: Verifiable registration/attempted testing of ASE area A6: Electrical/Electronic Systems.

AMT 291 – Safety and Lubrication

2 credits

Students will perform career readiness education through practice of live work-based skills. This course will focus on introducing students to the correct use of personal safety equipment and procedure.

ART

ART 102 – Intro to Art History: Visual Arts

3 credits

This course is an introduction to Western visual art from antiquity to 1945. Students learn a perspective of history through its visual footprint and gain an understanding of the changing purpose of art and the role of artists in relation to their social and cultural contexts. Prerequisite: WRI 095 or WRI 121 or placement into WRI 121.

ART 115 – Basic Design: 2 D Black & White

3 credits

Studio course introducing 2D black-and-white foundations centered on creative problem solving. Establishes critical skills and personal artistic vision. Investigates a broad range of materials, techniques and projects to explore black-and-white design concepts with reference to historical and contemporary perspectives.

ART 116 – Basic Design: 2D Color

3 credits

Studio course introducing 2D color foundations centered on creative problem solving. Establishes critical skills and personal artistic vision. Investigates a broad range of materials, techniques and projects to explore color design concepts with reference to historical and contemporary perspectives.

ART 117 – Basic Design: 3D Foundations

3 credits

Studio course introducing foundations of 3D design and spatial organization. Emphasizes innovative problem solving with varied media. Establishes critical skills and artistic vision. Incorporates range of materials and techniques to explore 3-D concepts with reference to historical and contemporary perspectives. Recommended: Co-Enrollment or completion of WRI 095.

ART 131 – Intro to Drawing

3 credits

A studio experience exploring basic drawing techniques, materials, and concepts while addressing historical and contemporary issues. A conceptual framework for critical analysis is presented along with basic art theory. College-level reading comprehension is recommended. You will be expected to purchase materials for this course based on a list provided by the instructor. Material costs will be approximately \$100. May not be taken concurrently with ART 231.

AVIATION

AVS 100 – Intro to Aviation

4 credits

This course examines aviation from early flight to future potentials. Introduces career opportunities in all fields of aviation and outlines career advancement possibilities. Provides general overview of pilot certificates and ratings and training aircraft used.

AVS 105 – Aviation Fundamentals

4 credits

Covers the basic fundamentals of aircraft aerodynamics, aircraft performance, and aviation meteorology with emphasis on Air Traffic Control (ATC), pilot communication, and the National Airspace System (NAS)

AVS 150 – Meteorology I

4 credits

This is a survey course in atmospheric science that covers weather basics and atmospheric circulations. Included is a systematic development of the following: the atmosphere, energy and temperature, wind, atmospheric moisture, horizontal and vertical pressure patterns, clouds, atmospheric circulation, stability, air masses, fronts, fog, icing, thunderstorms, jet streams, and turbulence. Students will study surface weather observations, routine weather reports and forecasts, surface maps, and constant pressure maps.

AVS155 – Applied Aerodynamics

4 credits

This course introduces aerodynamics. Explores various concepts and theories relevant to modern aviation. Prerequisite: AVS 105 or instructor approval.

BIOLOGY

BIO 101 – Biology I

3 credits

A laboratory science course designed for non-biology majors. The first term of a three-term sequence. Includes introduction to science, biochemistry, metabolism, the cell, molecular biology and reproduction. Recommended: Completion of CAS 133. Prerequisites: MTH 070 or MTH 095 or MTH 111 or placement into MTH 095 or MTH 111 and WRI 095 or WRI 121 or placement into WRI 121. Corequisite: BIO 101L.

BIO 101L – Biology I Lab

1 credit

Laboratory activities relating to BIO 101. Corequisite: BIO 101.

BIO 102 – Biology II

3 credits

A laboratory science course designed for non-biology majors. Presents protein syntheses, cell divisions, animal reproduction, genetics, embryology and the basic doctrines of evolution. Prerequisites: MTH 070 or MTH 095 or MTH 111 or placement into MTH 095 or MTH 111 and WRI 095 or WRI 121 or placement into WRI 121. Corequisite: BIO 102L.

BIO 102L – Biology II Lab**1 credit**

Laboratory activities relating to BIO 102. Corequisite: BIO 102.

BIO 103 – Biology III**3 credits**

A laboratory science course designed for non-biology majors. Presents the evolutionary relationships among the five kingdoms and their major phyla. The last half of this term covers human systems. Corequisite: BIO 103L.

BIO 103L – Biology III Lab**1 credit**

Laboratory activities relating to BIO 103. Corequisite: BIO 103.

BIO 112 – Integrated Chemistry and Cell Biology for Health Occupations**3 credits**

Introduces basic concepts of matter, atoms, compounds, intermolecular forces, solutions, pH, biomolecules, cell chemistry, cell structure and function, cell reproduction, and genetics. Concepts covered are applied to health-related problems. Recommended: MTH 070 or MTH 095 or MTH 111 or placement into MTH 070. Corequisite: BIO 112L

BIO 112L – Integrated Chemistry and Cell Biology for Health Occupations Lab**1 credit**

Laboratory activities relating to BIO 112. Corequisite: BIO 112

BIO 221Z – Principles of Biology: Cells- Lecture and Lab are combined**5 credits**

Explores fundamental biological concepts and theories about the cellular and molecular basis of life including cell structure and function, metabolism, genetic basis of inheritance and how information flows from DNA to proteins, with a focus on the iterative process of science. Intended for science majors.

BIO 222Z – Principles of Biology: Organisms – Lecture and Lab are combined**5 credits**

Explores fundamental biological concepts and theories about the structure and function of diverse organisms (including plants and animals), evolution and development, transformation of energy and matter, and body systems at a multicellular organismal level. Intended for science majors.

4 credits

BIO 223Z – Principles of Biology: Ecology and Evolution – Lecture and Lab are combined**5 credits**

Explores the unity and diversity of life through evolutionary mechanisms and relationships, and adaptation to the environment. Examines population, community, and ecosystem ecology. Intended for science majors

BIO 270 - Ecosystems**4 credits**

An overview of ecological principles and types of ecosystems, energy dynamics, resource flow, chemical and biological cycles, population dynamics, and human ecology. Descriptive modeling of environmental systems and resource analysis. Prerequisites: BIO 212 or ENV 170 and MTH 095 or MTH 111 or placement into MTH 111 and WRI 095 or WRI121 or placement into WRI 121. Corequisite: BIO 270L

BIO 270L – Ecosystems Lab**1 credit**

Lab activities relating to BIO 270. Corequisite: BIO 270

BUSINESS**BUS 101Z – Introduction to Business****4 credits**

Presents an integrated view of both established and entrepreneurial business by studying their common characteristics and processes in a global context. Introduces theory and develops basic skills in the area of accounting, finance, management, and marketing, with an emphasis on social responsibility and ethical practices. Explore how businesses can create value for themselves and society by addressing environmental and social challenges.

BUS 150 – Intro to Entrepreneurship**3 credits**

Students will learn the basics of entrepreneurship, including the personal aspects of entrepreneurs, opportunity identification, and organizational structuring. This course will introduce information on becoming an entrepreneur, selecting a type of ownership, developing a business plan, marketing a business, hiring and managing a staff, and financing, protecting, and insuring the small business.

BUS 169Z – Data Analysis Using Microsoft Excel**4 credits**

Covers Microsoft Excel software skills necessary for evidence-based problem-solving, including workbook editing, formula creation, charting, and pivot tables. Emphasis hands-on-learning using Excel functions to perform data analysis to enhance decision-making.

BUS 206 – Management Fundamentals**3 credits**

A study of the basic management and organizational principles within business entities. Introduces the concepts of planning, organizing, leading, control, implementation of change, ethical behavior, and corporate culture. Provides opportunities for students to apply concepts to actual workplace scenarios and evaluate impact on global business activities.

BUS 214 – Business Communications**3 credits**

This course covers concepts and skills necessary to communicate in today's constantly changing business environment. Students will learn how to create a wide range of business documents and oral presentations, addressing the needs of diverse audiences, and ethical implications of the communication process. Instructor approval may be obtained if a student has not met the WRI 121 prerequisite. Prerequisites: CAS 133 and WRI 121.

BUS 223 – Principles of Marketing**3 credits**

Study and analysis of the elements of marketing and marketing strategy, stressing product development, policies, pricing strategies, promotion, distribution, international markets, and consumer behavior. Emphasis on the elements of the marketing mix and target markets for consumer and industrial markets.

BUS 226Z – Introduction to Business Law**4.00 credits**

Provides a comprehensive overview of U.S. business law, including the legal system, contracts, torts, intellectual property, agency, employment, and business organization forms. Emphasizes practical legal knowledge and explores how laws impact business operations, with a focus on risk management, contract disputes, business formation, and compliance with government regulation. Introduces legal challenges in business through real cases and legal terminology. Prerequisite: WRI 121.

BUS 233 – Social Media Marketing**3 credits**

This course explores principles and technologies related to Internet marketing as part of an organization's overall marketing strategy. Common social media tools such as Facebook, Twitter, YouTube, and others will be utilized as resources to connect with customers and improve business performance.

BUS 285 – Human Relations in Organizations**3 credits**

This course covers human interactions within organizations, with a particular focus on communication and small group dynamics. Human relations techniques that build better employer/employee relationships are explored, and interpersonal relations both on the job and in everyday life are addressed.

CHEMISTRY**CHE 104 – General Chemistry I****4 credits**

Includes general principles of chemistry, including atomic structure, mole concept, chemical reactions stoichiometry, and gas laws. Prerequisites: MTH 095 or MTH 111 or placement into MTH 111 and WRI 121. Corequisite: CHE 104L

CHE 104L – General Chemistry I Lab**1 credit**

Laboratory activities relating to CHE 104. Corequisite: CHE 104.

CHE 105 – General Chemistry II**4 credits**

Includes stoichiometry, gases, oxidation reduction, acid/base concepts, equilibrium, and physical and chemical properties of solutions. Prerequisite: CHE 104. Corequisite: CHE 105L.

CHE 105L – General Chemistry II Lab**1 credit**

Laboratory activities relating to CHE 105. Corequisite: CHE 105.

CHE 106 – General Chemistry III**4 credits**

Includes fundamental principles of organic chemistry, biochemical processes, and nuclear chemistry. Prerequisite: CHE 105. Corequisite: CHE 106L.

CHE 106L – General Chemistry III Lab**1 credit**

Laboratory activities relating to CHE 106. Corequisite: CHE 106.

CHE 221Z – General Chemistry I (Preprofessional)**4 credits**

Explores and applies principles and applications of chemistry. Emphasis on measurement, components of matter, atomic and molecular structure, quantitative relationships including foundational stoichiometry, and major classes of chemical reactions. Prerequisites: MTH 095 or MTH 111 or placement into MTH 095 or MTH 111. Corequisite: CHE 221LZ.

CHE 227LZ – General Chemistry I Lab**1 credit**

Laboratory activities relating to CHE 221Z. Corequisite: CHE 221Z.

CHE 222Z – General Chemistry II (Preprofessional)**4 credits**

Explores and applies principles presented in CHE221Z to the study of the solid, liquid, and gaseous states of matter. Principles of stoichiometry, thermochemistry, kinetics, and foundational equilibrium are explored and applied to the study of aqueous and gas-phase chemical reactions.

Prerequisite: CHE 221Z. Corequisite: CHE 228LZ.

CHE 228L – General Chemistry II Lab**1 credit**

Laboratory activities relating to CHE 222Z. Corequisite: CHE 222Z.

CHE 223Z – General Chemistry III (Preprofessional)**4 credits**

Builds upon the principles presented in CHE222Z, explores thermodynamics and chemical equilibrium, and applies them to the study of aqueous acid-base reactions, solubility, and electrochemistry.

CHE223Z is a lecture course; CHE229Z is the laboratory component.

Prerequisite: CHE 222Z. Corequisite: CHE 229LZ.

CHE 229L – General Chemistry III Lab**1 credit**

Laboratory activities relating to CHE 223Z. Corequisite: CHE 223Z.

COLLEGE GENERAL STUDIES**CGS 100 – College Survival & Success****3 credits**

The purpose of this course is to help the student become a more effective learner. This course will cover college terms and information, class choice, degree requirements, etc. Helps new or returning students make personal and social adjustments for college success.

CGS 112 – Career Exploration & Planning**1 credit**

This course is designed to help students learn about career exploration process and prepares them to make informed choices about their chosen profession. Students will complete a variety of self-assessments to discover their unique strengths and preferences, explore various career options, learn about college majors and career pathways, and practice their decision-making and goal-setting skills.

COMPUTER APPLICATIONS

CAS 121 – Beginning Keyboarding**2 credits**

Students will learn to key alphabetic portion of the computer keyboard by touch, develop or refine basic keyboarding techniques, and increase speed and accuracy.

CAS 122 – Keyboarding for Speed & Accuracy**3 credits**

Students will refine keyboarding technique, increase speed, and improve accuracy through corrective practice. Recommended: Ability to touch type (defined as using the correct key reaches and not looking at keys while typing) at a minimum rate of 20 wpm.

CAS 133 – Intro to Computing Skills Lecture**3 credits**

Provides hands-on experience with Microsoft Office software fundamentals, including Word, PowerPoint and Excel. Includes concepts of computer operations and literacy as well as insight into the broad impact of computers on today's society. Students should have a basic working knowledge of general computer use prior to enrollment. Recommended: WRI 095 and keyboarding by touch. Corequisite: CAS 133L.

CAS 133L – Intro to Computing Skills Lab**1 credit**

Laboratory activities relating to CAS 133. Corequisite: CAS 133.

CAS 216 – Word Processing**3 credits**

Students will acquire knowledge and skills while preparing and editing word-processed documents. Recommended: Successful completion of CAS 133, and 25 wpm keyboarding proficiency.

COSMETOLOGY

Requires more in-depth conversation with education institution interested in providing these courses.

There are 24 supported courses. Please contact KCC's Director of Accelerated Learning for more information Kandra@klamathcc.edu OR 541-880-2337.

CRIMINAL JUSTICE

CJA 101 – Intro to Criminal Justice & Human Services Career

3 credits

This course is designed to help students become aware of career and education options in human services and criminal justice. Students attending this course will become familiar with the educational requirements, lifestyle considerations, application processes, training, certification requirements, and career opportunities in the fields of criminal justice and human services. Students will solidify their academic plan and prepare a personal career plan based on their goals. There are no prerequisites for this course. Students are strongly encouraged to take this course concurrently or immediately after CGS 100.

CJA 111 – Intro to Criminal Justice System – Police

3 credits

Examines the American criminal justice system and its origin with particular attention to the police. Provides an overview of the entire criminal justice process and reviews contemporary practices such as community policing.

CJA 112 – Intro to Criminal Justice Systems – Courts

3 credits

Explores: the court system and its procedures; laws as they affect the court system; types and degrees of evidence; rules governing admissibility of evidence; and the structure and function of local, state and federal court systems of the United States.

CJA 120 – American Criminal Justice System

3 credits

An overview of the American criminal justice system, examining structure, functions, processes, as well as theoretical perspectives in criminology, including biological, psychological, and sociological explanations. Focuses on law enforcement, criminal courts, corrections, community-based sanctions, and the constitutional frameworks in which they operate.

This class will provide an introduction to the structure, function, and horticultural physiology of flowering plants. Factors affecting horticultural plant growth and reproduction are studied in addition to a survey of plant propagation techniques. Corequisite: CSS 150L.

EARLY CHILDHOOD EDUCATION

ECE 101 – Child, Family, Community

3 credits

The study of influences on children and families which impact child and family behaviors, values, attitudes, beliefs, and morals. Topics include parenting patterns, cultural, religious and socioeconomic influences, peer, school, media impacts, community ecology, and public policy.

ECE 103 – Assessment & Evaluation

3 credits

Students will develop knowledge and skills in observing and assessing growth and behavior of children and the adult roles in supporting children's development. The student will examine the importance of developmentally appropriate practices, DAP, assessment and documentation. Students will learn and

apply observation techniques. Students are required to spend additional time outside of class observing children in individual and group settings. Prerequisite: PSY 235.

ECE 200 – The Professional in Early Childhood Education

3 credits

History, current programs and practices, and future issues of early-childhood education. Includes professionalism, historic and current issues, types of programs for young children, parent interaction, job opportunities, ethical/legal issues and community resources. Develops a professional philosophy.

ECE 280 – Coop Wk. Exp: Early Childhood Education

2 credits

On-the-job, paid or volunteer, experiences which allow for the application and development of knowledge, skills, and attitudes learned through the on-campus program so that the student can learn all aspects of the industry. Cooperative work experience is offered for variable credit based on the student's objectives. Instructor permission is required and the student must locate a job site for the course. All students must successfully pass a criminal background check.

ECONOMICS

ECO 201Z– Principles of Microeconomics

4 credits

Examines how consumers and firms make choices when facing scarce resources, and how those choices are related to government policy and market outcomes, such as process and output.

Recommended: Successful completion of MTH 070 or above and WRI 121 placement.

ECO 202Z – Principles of Macroeconomics

4 credits

Examines the aggregate activity of a market economy, economic growth, inflation, unemployment, and the use of fiscal monetary policy to address macroeconomic problems. Recommended: Successful completion of MTH 070 or above and WRI 121 placement.

ENGLISH

ENG 104Z– Introduction to Fiction

4 credits

The study of fiction invites us to enter imaginative narratives and confront the challenges of being human. English 104Z provides opportunities for the appreciate of fiction, including deeper awareness of craft and insight into how reading fiction can lead to self-enrichment. Students read a variety of types of fiction, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking.

ENG 105Z – Introduction to Drama

4 credits

The study of plays exposes us to texts with the power to shock, inspire, enlighten, and delight; this course in drama can be an empowering and transformative journey toward keener engagement with the world, local community, and your intended path. English 105Z provides opportunities for the appreciation of drama, including deeper awareness of craft and insight into how reading plays can lead to self-enrichment. Students read a variety off types of drama, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking.

ENG 106Z – Introduction to Poetry**3 credits**

The study of poetry invites us to delve into the biggest questions about life and culture alongside the seemingly smallest issues of words and sounds. English 106Z provides opportunities for the appreciation of poetry, including deeper awareness of craft and insight into how reading poetry can lead to self-enrichment. Students read a variety of types of poetry and poetic forms, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking.

ENVIRONMENTAL STUDIES**ENV 170 – Environmental Science****3 credits**

Examines major environmental questions facing the world today. Includes population growth, matter and energy resources, ecosystems, pollution, and environmental and society. Explores a broad range of environmental issues including sustainability, the interconnection of the economy with ecosystem, short-term versus long-term gains, and the trade-offs in balancing problems and solutions.

Recommended: Placement into WRI 095. Corequisite: ENV 170L.

ENV 170 – Environmental Science Lab**1 credit**

Laboratory activities relating to ENV 170. Corequisite: ENV 170.

EMERGENCY RESPONSE AND OPERATIONS**ERO 100 – Intro to Emergency Response and Operations****3 credits**

Prepares students for a career in emergency services. This course includes an overview of emergency medical services, law enforcement services and firefighter services, career opportunities within and related fields.

ERO 115 – Crisis Intervention**3 credits**

An introduction to crisis response for first responders of an emergency or significant incident or event. This course will assist those who are assisting people in the immediate aftermath of a disaster or other type of tragedy. Students will learn how to reduce initial stress, gather information, debrief, and produce an environment of connectedness to empower communities to heal in the recovery process.

GEOGRAPHY**GEO 105 – Physical Geography****3 credits**

Introduces students to the geographical study of earth's physical landscape and process. Topics include the biosphere, geosphere, atmosphere, and human-environment interactions. Concepts are applied to a variety of regions including Oregon and the Klamath Basin. Satisfies lab science requirement. Recommended: WRI 121 placement Corequisite: GEO 105L

GEO 105L – Physical Geography Lab**1 credit**

Laboratory activities relating to GEO 105. Corequisite: GEO 105

GEO 106 – Human Cultural Geography I**3 credits**

Introduces students to the science of human geography. Concepts are applied to a variety of Western regions including the Klamath Basin, the Americas, and Western Europe. Recommended: WRI 121 placement.

GEO 107 – Human Cultural Geography I**3 credits**

Introduces the study of human cultural geography with a focus on developing nations. Regional topics include the Middle East, Asia, Africa, and the Pacific Islands. Recommended: WRI 121 placement.

HEALTH STUDIES

HEA 125 – First Aid & Industrial Safety**3 credits**

Presents an overview of industrial safety regulations, accident prevention, ergonomics, hazardous materials, first aid, and adult CPR. Successful students will receive a First Aid and Adult CPR card.

HEA 252 – First Aid Basics & Beyond**3 credits**

Explores and demonstrates basic first aid and advance first aid for remote areas. Includes first aid and CPR certification.

HEALTH INFORMATION MANAGEMENT

HIM 103 – Intro to Health Services**3 credits**

Introduction to health services with a focus on understanding the healthcare system including financing of healthcare, organizations and settings, non-financial resources and evaluation, regulation, and assessment. Prerequisite: WRI 095 or WRI 121 or placement into WRI 121

HIM 104 – Intro to Health Data and Content I**3 credits**

This course provides an overview of healthcare delivery systems and health information fields. Includes origin and uses of health records, admitting function, filing and numbering systems, interdepartmental communication, and computation of basic census data, micrograph concepts, and electronic data interchange. Introduction to application of healthcare via a web-based virtual lab.

HIM 105 – Legal & Ethical Aspects of Healthcare**3 credits**

Introduces the legal basis for medical practice, confidentiality, HIPAA, voluntary and involuntary release of medical information, professional liability, consents for treatment and other procedures, and medical-ethical issues.

HEALTH WELLNESS

HPE 225 – Nutrition

3 credits

A study of food and nutrition, including how they relate to health and disease. Students are exposed to basic nutrition including nutrient needs, how nutrients function in the body, energy balance, and diet planning for various medical conditions. Provides an in-depth look at current topics and the American diet.

HPE 295 – Health & Fitness for Life

3 credits

Explores the role of wellness, physical fitness, stress, nutrition, and cardiovascular health in promoting an individual's health and well-being. Fitness testing and fitness lab are included.

PED 141C – Fundamentals of Healthy Movement

1 credit

The focus is on increasing core strength and stabilization, muscle balance, tone, coordination, and flexibility. Incorporates non-impact mat exercises designed to develop whole body awareness and control and includes modifications for various fitness levels.

PED 181A – Beginning Weight Training

1 credit

Stresses the proper techniques of weight lifting and development of muscular strength and endurance. Individual programs developed which allow for body strength differences and safety in lifting.

PED 182B – Intermediate Weight Training

1 credit

A total body conditioning course that emphasizes intense free weight exercises set to music and incorporates core condition. Featured equipment includes dumbbells, body bar, resistance bands and body weight. Focus places on proper techniques of weight lifting and the development of muscular strength and endurance. Individual programs developed which allow for body and strength difference and safety in lifting.

HISTORY

HST 101 – Western Civilization I: Ancient World to 1000

3 credits

Studies the ancient civilizations of Egypt, Mesopotamia, Greece, and Rome. Topics also include development of early Christianity and early Medieval Europe. HST 101, 102, and 103 may be taken out of sequence. Recommended: WRI 121 placement.

HST 102 – Western Civilization II: 1000 to 1800

3 credits

Studies early Modern Europe including Renaissance, Reformation, Scientific Revolution, and the French Revolution. HST 101, 102, and 103 may be taken out of sequence. Recommended: WRI 121 placement.

HST 103 – Western Civilization III: 1800 to Present**3 credits**

Studies Europe in the 19th and 20th centuries. Topics include the Industrial Revolution, nationalism, socialism, the two world wars, the Russian Revolution, Nazism, and globalization. HST 101, 102, and 103 may be taken out of sequence. Recommended: WRI 121 placement.

HST 201 –United States History I: Colonial Period to 1840**3 credits**

Surveys North American history from the Age of Exploration to 1840. Studies include political, social, and economic trends and events. HST 201, 202, and 203 may be taken out of sequence. Recommended: WRI 121 placement.

HST 202 – United States History: 1840 to 1914**3 credits**

Surveys the history of the United States from 1840 to 1914. Studies include political, social, and economic trends and events. HST 201, 202, and 203 may be taken out of sequence. Recommended: WRI 121 placement.

HST 203 – Unites States History III: 1914 to Present**3 credits**

Surveys the history of the United States from 1914 to the present. Studies include political, social, and economic trends and events. HST 201, 202, and 203 may be taken out of sequence. Recommended: WRI 121 placement.

LANGUAGES**GER 101 – First Year German I****4 credits**

Emphasizes active communication in beginning German. Includes listening, speaking, reading, writing, pronunciation, structure, vocabulary, and culture.

GER 102 – First Year German II**4 credits**

Continues the work of GER 101. Emphasizes active communication in German. Includes listening, speaking, reading, writing, pronunciation, structure, vocabulary, and culture. Prerequisite: GER 101.

GER 103 – First Year German III**4 credits**

Continues the work of GER 102. Emphasizes active communication in German. Includes listening, speaking, reading, writing, pronunciation, structure, vocabulary, and culture. Prerequisite: GER 102.

GER 201 – Second Year German I**4 credits**

Continues the work of first-year German, reviewing, expanding, and perfecting pronunciation, structure, and vocabulary for the purpose of active communication. Includes practice in reading and writing. Prerequisite: GER 103.

GER 202 – Second Year German II**4 credits**

Continues to expand structure and vocabulary for the purpose of active communication. Includes practice in reading and writing. Prerequisite: GER 201.

GER 203 – Second Year German III**4 credits**

Continues to expand structure and vocabulary for the purpose of active communication. Includes practice in reading and writing. Prerequisite: GER 202.

SPA 101 – First Year Spanish I**4 credits**

First in a three-course series designed to develop basic communication skills in oral and written Spanish. Introduces learners to the rich culture of the Spanish-speaking world, including listening, speaking, reading, writing, pronunciation, structure, vocabulary, and culture.

SPA 102 – First Year Spanish II**4 credits**

Second in a three-course series designed to develop basic communication skills in oral and written Spanish. Introduces learners to the rich culture of the Spanish-speaking world, including listening, speaking, reading, writing, pronunciation, structure, vocabulary, and culture. Prerequisite: SPA 101.

SPA 103 – First Year Spanish III**4 credits**

Third in a three-course series designed to develop basic communication skills in oral and written Spanish. Introduces learners to the rich culture of the Spanish-speaking world, including listening, speaking, reading, writing, pronunciation, structure, vocabulary, and culture. Prerequisite: SPA 102.

SPA 201 – Second Year Spanish I**4 credits**

Reviews and expands the use of basic vocabulary, structural patterns, indicative tenses and commands from first-year college Spanish. Listen, speak, write, and read in Spanish. Prerequisite: SPA 103

SPA 202 – Second Year Spanish II**4 credits**

Practice and expand vocabulary and structures. Emphasizes subjunctive tenses to express personal feelings, doubts, and opinions in Spanish. Prerequisite: SPA 201.

SPA 203 – Second Year Spanish III**4 credits**

Practice and expand vocabulary and subjunctive patterns. Listen, speak, read, write, and begin to sense the culture in the idiom. Prerequisite: SPA 202.

MANUFACTURING ENGINEERING TECHNOLOGY

MET 102 - Basic Engineering Materials

3 credits

Introduces materials and metallurgy to include structure, selection, and use. Survey of materials used in industry and their physical and chemical attributes as they relate to properties, corrosion, and engineering applications. Major consideration given to metal alloys. Introduction to polymers, ceramics, and composites included. Recommended: WLD 101

MET 241 - CAD for Mechanical Design I

2 credits

Instruction and practice of AutoCAD (mechanical) software in 2D environment. Utilize 2D software practice to develop into an apprentice level wireframe computer aided design (CAD) technician. Corequisite: MET 241L.

MET 241L - CAD for Mechanical Design I Lab

1 credit

Laboratory activities related to MET 241. Corequisite: MET 241

MET 242 - CAD for Mechanical Design II

2 credits

Instruction and practice of AutoCAD (mechanical) software in 3D environment. Utilize 3D software, practice to develop into an apprentice level computer aided design (CAD) technician. Prerequisite: MET 241 Corequisite: MET 242L.

MET 242L - CAD for Mechanical Design II Lab

1 credit

Instruction and practice of AutoCAD (mechanical) software in 3D environment. Utilize 3D software, practice to develop into an apprentice level computer aided design (CAD) technician. Corequisite: MET 242.

MEDICAL

MDA 100 – Exploring Health Careers

1 credit

Course will explore health careers such as nursing, physical therapy, dental hygiene, and emergency medical services. Guest speakers from different health career areas will be invited to the classroom to provide students with an understanding of college requirements, performance skill levels, salaries, and availability of job opportunities.

MDA 101 – Medical Terminology I

3 credits

Covers medical terminology prefixes, suffixes, word roots, and abbreviations by body system.

MDA 102 – Medical Terminology II

3 credits

Covers medical terminology prefixes, suffices, word roots, and abbreviations by body system. Prerequisite: MDA 101 with a grade of "C" or better.

MULTIMEDIA

MMT 239 Digital Drawing/Adobe Illustrator

3 credits

Introduces the basics of digital illustration working with both vector graphics and photo editing. Applies tablet technology and screen-based drawing to create digitized graphic elements such as image header, sidebar, banner, logo, and other elements commonly used in design. Uses various software platforms, but focuses mainly on Adobe Digital Illustrator.

Recommended: ART 131. Corequisite: MMT 239L.

MMT 239L - Digital Drawing/Adobe Illustrator Lab

1 credit

Laboratory activities related to MMT 239. Corequisite: MMT 239.

MMT 240 – Digital Photography & Photoshop

3 credits

Students will learn the basics of digital photography, composition, and manipulation of images while using Adobe Photoshop. Investigate competent compact digital and DSLR camera handling techniques. The course emphasizes exposure control, digital management, image editing, printing and presentation. Examines important photographic themes, lighting, and composition. Use Photoshop in acquiring, preparing, manipulating, storing, outputting and/or uploading and displaying digital images. Requires access to a camera with manual exposure controls, DSLR (digital single-lens-reflex) cameras are preferred. Corequisite: MMT 240L.

MMT 240L - Digital Photography & Photoshop Lab

1 credit

Laboratory activities relating to MMT 240. Corequisite: MMT 240.

MMT 241 – Graphic Design for the Web

3 credits

This intermediate-level digital design course enables students to create web-based graphic and media solutions. Primary software programs include Adobe CS6 Illustrator (for illustrating) and Photoshop (for graphics production and image editing). Students build upon and apply previously learned skills that are specific for business marketing and digital communications and create digital art assets such as logos, buttons, headers, splash screens, infographics and various design and editing techniques for vector graphics, bitmap images, and photos. Both programs are used to integrate Photoshop and Illustrator files for web applications. Recommended: Completion of MMT239 and MMT240. Corequisite: MMT 241L.

MMT 241L – Graphic Design for the Web

1 credit

Laboratory activities relating to MMT 241. Corequisite: MMT 241.

MMT 260 – Video Production I

3 credits

Introduces digital video production, with a focus on the fundamentals of project planning, basic camera functions, shooting techniques, lighting principles, and audio recording fundamentals. Includes preproduction issues, production terminology, and evaluation of industry etiquette. Recommended: MMT 240. Corequisite: MMT 260L

MMT 260L – Video Production I Lab**1 credit**

Laboratory activities relating to MMT 260. Corequisite: MMT 260.

MMT 261 – Advanced Video Editing**3 credits**

Continues video production at an intermediate level and includes creation in multiple genres of short-form videos. While applying storytelling and narrative techniques, students create and produce one-on-one interviews, on-the-street interviews, product demos, how-to videos, YouTube videos, web cam videos, and creative storytelling videos. Production equipment used includes digital cameras, lighting, microphones, backdrops, and apply multiple editing techniques.

Prerequisites: MMT 260. Corequisite: MMT 261L.

MMT 261L – Advanced Video Editing Lab**1 credit**

Laboratory activities relating to MMT 261. Corequisite: MMT 261.

MMT 296 – Community Project-Based Learning**3 credits**

Special topics, activities, or projects in an area of digital media not usually covered in depth in other MMT courses. Offered for 3 credits, based on the student's accomplishments, and community and project-based opportunity. Instructor permission is required prior to registration.

MATHEMATICS**MTH 105Z – Math in Society****4 credits**

An exploration of present-day application of mathematics focused on developing numeracy. Major topics include quantitative reasoning and problem-solving strategies, probabilities and statistics, and financial mathematics; these topics are to be weighted approximately equally. This course emphasizes mathematical literacy and communication, relevant everyday applications, and the appropriate use of current technology.

MTH 111Z – Precalculus I: Functions**4 credits**

A course primarily designed for students preparing for trigonometry or calculus. This course focuses on functions and their properties, including polynomial, rational, exponential, logarithmic, piecewise-defined, and inverse functions. These topics will be explored symbolically, numerically, and graphically in real-life applications and interpreted in context. This course emphasizes skill building problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of present-day technology.

Prerequisite: MTH 095 with a grade of "C" or better or placement into MTH 111.

MTH 112Z – Precalculus II: Trigonometry**4 credits**

A course primarily designed for students preparing for calculus and related disciplines. This course explores trigonometric functions and their application as well as the language and measurement of angles, triangles, circles, and vectors. These topics will be explored symbolically, numerically, and graphically in real-life applications and interpreted in context. This course emphasizes skill building,

problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of present-day technology.

Prerequisite: MTH 111 with a grade of "C" or better.

STA 243Z – Elementary Statistics I

4 credits

A first course in statistics focusing on the interpretation and communication of statistical concepts. Introduces exploratory data analysis, descriptive statistics, sampling methods and distributions, point and interval estimates, hypothesis tests for means and proportions, and elements of probability and correlation. Technology will be used when appropriate.

Prerequisite: MTH 095 with a grade of "C" or better or MTH 105 with a grade of "C" or better or MTH 111 with a grade of "C" or better or placement into MTH111

MTH 244 – Statistics II

4 credits

Covers inferential statistics with an emphasis on applications. Topics include estimation of proportions and means for a population, inferences from chi-square distributions, one way and two-way analysis of variance (ANOVA), the F distribution, time series analysis, regression and correlation, and hypothesis testing. Working knowledge of Excel required.

Prerequisite: MTH 243 with a grade of "C" or better.

OFFICE SYSTEMS

OST 131 - 10-key Calculators

1.00 credits

Students will learn techniques to develop 10-key skills by touch. This course also covers the use of electronic printing calculators to solve simple business and mathematical problems.

PHYSICS

PHY 101 – Fundamentals of Physics I

3 credits

Laboratory science course designed for non-science majors. First term of a three-term series. A conceptual study of physics. Includes introduction to the scientific method, study of motion, mechanics, vectors, energy, simple machines, satellite motion, and atomic structure. Prerequisites: MTH 065 or MTH 070 or MTH 095 or MTH 111 or placement into MTH 070 or MTH 095 or MTH 111 and WRI 095 or WRI 121 or placement into WRI 121. Corequisite: PHY 101L.

PHY 101L – Fundamentals of Physics I Lab

1 credit

Laboratory activities relating to PHY 101. Corequisite: PHY 101.

PHY 102 – Fundamentals of Physics II

3 credits

Laboratory science course designed for non-science majors. Second term of a three-term series. A conceptual study of physics. Topics include, properties of matter and thermodynamics. Prerequisites: MTH 065 or MTH 070 or MTH 095 or MTH 111 or placement into MTH 070 or MTH 095 or MTH 111 and WRI 095 or WRI 121 or placement into WRI 121.Corequisite: PHY 102L.

PHY 102L – Fundamentals of Physics II Lab**1 credit**

Laboratory activities relating to PHY 102. Corequisite: PHY 102.

PHY 103 – Fundamentals of Physics III**3 credits**

Laboratory science course designed for non-science majors. Third term of a three-term series. A conceptual study of physics. Topics include waves and sound, electricity and magnetism, and light and optics. Prerequisites: MTH 065 or MTH 070 or MTH 095 or MTH 111 or placement into MTH070 or MTH 095 or MTH 111 and WRI 095 or WRI 121 or placement into WRI 121. Corequisite: PHY 103L.

PHY 103L – Fundamentals of Physics III Lab**1 credit**

Laboratory activities relating to PHY 103. Corequisite: PHY 103.

PHY 201 – General Physics I (Algebra-based)**4 credits**

Introductory physics (algebra based) for science majors, pre-medical, pre-dental, pre-chiropractic and pre-physical therapy students. Topics include mechanics including statics, forces and motion energy, collisions, circular motion, and rotational dynamics.

Prerequisite: MTH 111. MTH 111 can be taken concurrently with PHY 201. Corequisite: PHY 201L.

PHY 201L – General Physics I Lab**1 credit**

Laboratory activities relating to PHY 201. Corequisite: PHY 201.

PHY 202 – General Physics II (Algebra-based)**4 credits**

Topics include mechanical properties of matter, heat, waves, sound, and light. Algebra-based physics. Prerequisite: PHY 201. Corequisite: PHY 202L.

PHY 202L – General Physics II (Algebra-based)**1 credit**

Laboratory activities relating to PHY 202. Corequisite: PHY 202.

PHY 203 – General Physics III (Algebra-based)**4 credits**

Topics include electricity, magnetism, and radioactivity. Algebra-based physics. Prerequisite: PHY 202. Corequisite: PHY 203L.

PHY 203L – General Physics III Lab**1 credit**

Laboratory activities relating to PHY 203. Corequisite: PHY 203.

POLITICAL SCIENCE

POL 201 – Intro to U.S. Government

3 credits

Covers the basic concepts and principles of the American political system.

Recommended: WRI 121 placement.

POL 203 – State & Local Government

3 credits

Examines state and local government policy formulation and outcomes on issues ranging from taxation to prisons, and education to environmental concerns. Focuses on Oregon state and local politics.

Recommended: WRI121 placement.

PSYCHOLOGY

PSY 101 – Psychology & Human Relations

3 credits

Focuses on practical and personal applications of psychological principles. Encourages applications of psychological principles to daily living and to human interactions such as work, leisure, school, and relationships. This course is designed for students who are not majoring in psychology. This course transfers as a general elective.

PSY 201Z – Introduction to Psychology I

4 credits

Introduction to the science and application of psychology. Emphasis will be placed on psychological concepts, theories, and principles related to: Research Methods, Behavioral Neuroscience, Consciousness, Sensation/Perception, Learning Memory, Thinking and Intelligence, and related topics. Prerequisites: WRI 121

PSY 202Z – Introduction to Psychology II

4 credits

Introduction to the science and application of psychology. Emphasis will be placed on psychological concepts, theories, and principles related to: Personality, Social Psychology, Health and Well-Being, Motivation and Emotion, Disorders, Therapies, Lifespan Development, and related topics.

Recommended: PSY201Z. Prerequisite: WRI 121.

PSY 235 – Human Growth & Development I

3 credits

A biosocial study of human development from conception to adolescence. Discusses the biological and social processes, i.e., cognition, personality, emotion, and social, affecting the developing child.

Applications to health care, family, and education are discussed. Recommended: Previous coursework in psychology.

PSY 236 – Human Growth & Development II

3 credits

A psychological study of the continuing development of the human being from adolescence through old age and death. Discussion focuses on the social and healthcare issues of adulthood. Applications to healthcare, family, and social policy. Prerequisite: PSY235

SOCIOLOGY

SOC 204Z – Introduction to Sociology

4 credits

Introduces the central concepts, theories, and methods that define sociological approaches to investigating the social forces that shape our lives. Topics may include social structure, culture, socialization, race, class, gender, sexuality, and inequality.

SOC 205Z – Social Change and Institutions

4 credits

Sociological analysis of social institutions, such as family, education, health care, the economy, and the state. Includes an examination of connections among institutions and their impact on patterns of inequality and individual outcomes. Examines the forces and dynamics behind social change, such as social movements, culture, economic forces, technologies, and the environment

SPEECH

COM 111Z – Public Speaking

4 credits

Emphasizes developing communication skills by examining and demonstrating how self-awareness, audience, content, and occasion influence the creation and delivery of speeches and presentations. Prerequisite: WRI 121.

WELDING

WLD 101 – Welding Processes & Applications

3 credits

Introduction to Welding covers flat and horizontal positions with oxygen-acetylene welding OAW, stick SMAW, MIG GMAW on mild steel, Tig GTAW on aluminum, safety, setting up and shutdown.

WLD 114 – Shielded Metal Arc Weld: Mild Steel I

3 credits

Develops knowledge and manipulative skills in the use of E7018 mild steel electrodes when performing various welds in the flat, horizontal, and vertical positions. Prerequisite: WLD 101.

WLD 115 – Shielded Metal Arc Weld: Mild Steel II

3 credits

Develop intermediate and advanced skills in shielded metal arc welding for success in the metal fabrication industry. Includes preparation of joints for proper setup and design using $\frac{1}{4}$ inch and thicker mild steel. Prerequisite: WLD114.

WRITING

WRI 121Z – Composition I

4 credits

Engages students in the study and practice of critical thinking, reading, and writing. The course focuses on analyzing and composing across varied rhetorical situations and in multiple genres. Students will apply key rhetorical concepts flexibility and collaboratively throughout their writing and inquiry processes. Prerequisite: WRI 095 with a grade of a "C" or better or placement into WRI 121.