

[CGCC] Curricular Changes - Effective for Academic Year [2022-23]

This list submitted to OrACRAO on: [August 31, 2022]

Curricular Change Cycle: [Annual]

Annual submission date: [August 31]

Name & contact info of person updating this template: [Susan Lewis, slewis@cgcc.edu, 541.506.6047]

Effective Term	New (N) Modified (M) Deleted (D)	Prefix	Course#	Course Title	Credits	Course Description	Type of Change (for modified classes only)	Comments
FALL, 2021	M	ART	232	Drawing II - Studio	3	Deepens basic drawing skills explored in ART 230 to encourage the development of individual style. Reinforces the conceptual framework for critical analysis along with basic art theory. May be taken two times for credit. Prerequisite: ART 230. Audit available.	Revised credits from 2 to 3	
FALL, 2021	M	ART	254	Ceramics II - Studio	3	Provides semi-directed studio time to deepen understanding of basic ceramics processes, techniques and concepts introduced in ART 252. Encourages the development of individual style, character and self-identity while strengthening the ability to self-critique. May be taken two times for credit. Prerequisite: ART 252. Audit available.	Revised credits from 2 to 3	
FALL, 2021	M	ART	271	Printmaking II - Studio	3	Continues the exploration of printmaking processes, techniques, and concepts. Emphasizes the development and practice of skills and knowledge attained in ART 269, encouraging the development of individual style. Furthers creative problem solving by utilizing more complex printmaking processes. May be taken two times for credit. Prerequisite: ART 269. Audit available.	Revised credits from 2 to 3	
FALL, 2021	M	ART	287	Watercolor II - Studio	3	Explores more advanced studio watercolor painting techniques, materials, and concepts to encourage the development of individual style. Reinforces the conceptual framework for critical analysis along with basic art theory. May be taken two times for credit. Prerequisite: ART 286. Audit available.	Revised credits from 2 to 3	
SPRING, 2022	M	CT	114	Windows and Interior Doors	3	Introduces the various types of windows, skylights, and interior doors available and their proper use. Provides instructions for installation. Includes procedures for installing weather-stripping and locksets. Prerequisites: MTH 98 or placement into MTH 65; placement into IRW 115 or WR 115. Audit Available.	Title change: formerly "Windows and Exterior Doors"; revised requisites (formerly: Prerequisites: MTH 60 or MTH 98, RD 90, WR 90 or equivalent placement test scores.); revised description.	
SUMMER, 2022	M	BA	131	Introduction to Business Technology	4	Explores computer concepts and information technology used in business organizations including MS Office software applications Word, Excel®, and PowerPoint®. Includes introduction to hardware, software, databases, file management, internet, and email as tools for communication and collaboration. Presents specialized vocabulary and promotes awareness of ethics and critical thinking. Prerequisites: IRW 115 or WR 115 or equivalent placement; placement into MTH 65 or MTH 98; CAS 121 or keyboarding by touch. Audit available.	Revised requisites (formerly: Prerequisites: WR 115, RD 115, and MTH 20 or equivalent placement test scores); revised description.	
SUMMER, 2022	N	BA	170	Project Management Fundamentals	4	Examines project management and its controlled processes of initiating, planning, and executing. Introduces all aspects of a project with emphasis on the coordination and motivation of personnel involved. Explores how to define goals and optimize the use of resources in order to achieve the project objectives. Prerequisites: BA 104, BA 131. Audit available.		
SUMMER, 2022	D	BA	177	Payroll Accounting	3	Covers fundamental skills and basic knowledge in the area of business payroll; personnel record keeping; calculation of gross pay using various methods; calculation of Social Security and Medicare taxes; calculation of federal and state income and unemployment taxes; journalizing and posting payroll entries; and completing various federal and state forms. Prerequisites: BA 111 or BA 211. Recommended: BA 104. Audit available.		
SUMMER, 2022	D	BA	196	Entrepreneurship Capstone – Year One	2	Synthesizes the first-year of study, examining an entrepreneurial venture. Fosters creativity in the design and planned execution of the endeavor. Promotes awareness of the perquisites and pitfalls of entrepreneurship through interactions with actual business founders and owners. Prerequisites: completion of 30 credits of required coursework for Entrepreneurship certificate. Audit available.		

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SUMMER, 2022	M	BA	222	Financial Management	3	Explores basic financial concepts and practices and includes analysis of company resources, types and sources of financing, forecasting and planning methods, and the roles of the money and capital markets. Prerequisites: BA 101; BA 111 or BA 211; BA 104 or MTH 65 or MTH 98 or equivalent placement; WR 121. Audit available.	revised requisites (formerly: Prerequisites: WR 121, MTH 65 or equivalent placement test scores, BA 101, BA 111 or BA 211, BA 104 or MTH 65 or MTH 98.); revised description	
SUMMER, 2022	D	CAS	104	Basic Internet Skills	1	Introduces web terminology, web browsers, search techniques, and communication tools. Audit available.		
SUMMER, 2022	D	CAS	133	Intro to Office Software	4	Introduces the basic features of word processing, spreadsheets, and presentations. Also introduces computer operating system basics, and file management, Internet and email. Recommended: RD 115, WR 115 and CAS 121 or keyboarding by touch. Audit available.		
SUMMER, 2022	D	CAS	103W	Introduction to Computers: Using Windows	1	Introduces the computer, including the use of Moodle, Internet, Email, cloud computing, and Google Drive (or similar). Explores the fundamentals of the Windows (PC) operating system, including basic computer operating system functions such as: file structure, accessories, control panel, and system tools. Develops basic computer vocabulary, and includes open-ended projects in which newly learned skills are applied. Recommended CAS 121 or equivalent keyboarding skills. Prerequisites: placement into RD 115 and WR 115. Audit available.		
SUMMER, 2022	N	CT	115	Interior and Exterior Finishes	3	Provides training in the use of various interior and exterior finish materials and techniques. Includes calculating material quantities and accurate measuring techniques. Prerequisites: MTH 98 or placement into MTH 65; placement into IRW 115 or WR 115. Audit Available.		
SUMMER, 2022	M	EET	111	Electrical Circuit Analysis 1	5	Covers SI units, engineering notation and prefixes, unit conversion, definitions of conductors and insulators, current, voltage, resistance, power, work/energy, capacity factor, and efficiency. Includes analysis of series, parallel, and series/parallel DC circuits using Ohm's and Kirchhoff's Laws and Thevenin and Norton equivalent circuits. Introduces circuit simulation software, lab practices, soldering and de-soldering, schematic reading, circuit construction and troubleshooting, and lab equipment and instrumentation. Includes a 3-hour per week laboratory session. Prerequisites: MTH 65 (B or better), IRW 115 or WR 115, or equivalent placement. Audit available.	Title change (formerly: DC Circuits); revised requisites (formerly: Prerequisites: MTH 65 (B or better), WR 115 and RD 115 or higher; or equivalent placement test scores); revised description.	
SUMMER, 2022	M	EET	112	Electrical Circuit Analysis 2	5	Introduces capacitance, inductance, RC/RL transient response, properties of sinusoidal waveforms, reactance and impedance, phasor analysis of series, parallel, and series-parallel AC circuits. Includes a 3-hour per week laboratory. Prerequisite: EET 111. Audit available.	Title change (formerly: AC Circuits); revised description.	
SUMMER, 2022	M	EET	113	Electrical Circuit Analysis 3	5	Covers AC power, power factor correction, AC network analysis theorems, transformers, analysis of balanced and unbalanced 3 phase AC Y and delta configured loads, and squirrel cage induction motors. Includes a 3-hour per week laboratory session. Prerequisite: EET112 or department approval. Audit available.	Title change (formerly: AC Power); revised description.	
SUMMER, 2022	D	EET	170	Embedded Computing	3	Explores complex computing environments where computers, operating systems, programming languages and network connections integrate. Includes projects involving programming, troubleshooting and system analysis. Prerequisites: WR 115 and MTH 65 or higher; RD 115; or equivalent placement test scores. Audit available.		

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SUMMER, 2022	N	EET	180	Industrial Computing	3	Explores computers and computer applications in an industrial environment. Discusses computer hardware, software, and maintenance, operating systems and file management, networking, databases, and word processing, spreadsheet, and presentation software. Prerequisite: MTH 65 or equivalent placement. Audit available.		
SUMMER, 2022	M	EET	221	Semiconductor Devices and Circuits 1	5	Examines the construction, theory of operation, and application of semiconductor devices including diodes (rectifier, zener, LED, photo), bipolar junction transistors (BJTs), metal oxide semiconductor field effect transistors (MOSFETs), and insulated gate bipolar transistors (IGBTs). Covers semiconductor circuit applications including rectification, amplification, and switching. Prerequisite: EET 113. Audit available.	New title (formerly Semiconductor Devices and Circuits); revised description	
SUMMER, 2022	N	EET	231	Semiconductor Devices and Circuits 2	5	Explores modern applications of semiconductor devices with a focus on power electronics. Utilizes insulated gate bipolar transistors (IGBTs) to study the operation of buck and boost choppers, battery chargers, and pulse width modulated (PWM) inverters. Examines the construction and theory of operation of thyristors and their use in rectifiers, inverters, and motor drives. Prerequisite: EET 221. Audit available.		
SUMMER, 2022	N	EMS	100	Introduction to Emergency Medical Services	2	Introduces and integrates knowledge of prehospital Emergency Medical Services (EMS) systems. Explores the history of emergency medical services. Introduces rolls and responsibilities of the provider levels as well as communication systems and documentation. Prerequisite: IRW 115 or WR 115 or equivalent placement. Audit available.		
SUMMER, 2022	N	EMS	115	Crisis intervention	3	Prepares the EMT to better understand an emotional crisis and the causes of stress. Explores how to assist others as well as themselves in dealing with stress during a crisis. Prerequisite: IRW 115 or WR 115 or equivalent placement. Audit available.		
SUMMER, 2022	N	EMS	116	Intro to Emergency Medical Rescue	3	Provides a brief introduction into EMS/fire service rescue practices. Includes the following topics: auto extrication, rope rescue, water and ice rescue, fire ground search and rescue, confined space rescue situations, and emergency driving. Covers the basic knowledge and skills needed to perform as a team member in rescue operations. Prerequisite: EMS 106, valid driver's license. Audit available.		
SUMMER, 2022	N	EMS	210	Paramedic Part 1	9	Covers the introductory knowledge, skills and behaviors required of a paramedic in pathophysiology, basic electrocardiography, pharmacology, medical emergencies and trauma emergencies. This is the first course in a three-course series. Prerequisites: EMS 100, EMS 105, EMS 106, EMS 115, EMS 116. Corequisite: EMS 220. Audit available.		
SUMMER, 2022	N	EMS	211	Paramedic Part 2	8	Covers intermediate knowledge, skills and behaviors required of a paramedic in medical emergencies trauma emergencies, and pharmacology. This is the second course in a three-course series. Prerequisites: EMS 210, EMS 220. Corequisites: EMS 221, EMS 231. Audit available.		
SUMMER, 2022	N	EMS	212	Paramedic Part 3	7	Covers advanced knowledge, skill and behaviors required of a paramedic in medical and trauma emergencies. This is the third course in a three-course series. Prerequisites: EMS 211, EMS 221, EMS 231. Corequisites: EMS 222, EMS 232. Audit available.		

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SUMMER, 2022	N	EMS	220	Paramedic Lab 1	3	Practices the skills and behaviors learned in EMS 210 required of a paramedic in medication administration, trauma and medical patient assessment and management, and ECG interpretation. Provides training in the skills lab setting using simulated patients. This is the first course a three-course lab series. Prerequisites: EMS 100, EMS 105, EMS 106, EMS 115, EMS 116. Corequisite: EMS 210. Audit available.		
SUMMER, 2022	N	EMS	221	Paramedic Lab 2	2	Practices the skills and behaviors learned in EMS 221 required for proficient medication administration, assessment and management of various trauma and medical situations, and interpretation of 12-lead ECG. Provides training in the skills lab setting using simulated patients. This is the second course in a three-course lab series. Prerequisites: EMS 210, EMS 220. Corequisites: EMS 211, EMS 231. Audit available.		
SUMMER, 2022	N	EMS	222	Paramedic Lab 3	2	Practices the skills and behaviors learned in EMS 222 required for proficient medication administration, assessment and management of various trauma and medical patients, and interpretation of 12-lead ECG. Provides training in the skills lab setting using simulated patients. This is the third course in a three-course lab series. Prerequisites: EMS 211, EMS 221, EMS 231. Corequisites: EMS 212, EMS 232. Audit available.		
SUMMER, 2022	N	EMS	231	Paramedic Clinical 1	3	Provides field experience designed to expose the student to disease and injury conditions comparable to those experienced by paramedics in pre-hospital care situations. Explores multiple departments within the hospital/clinical setting, enabling the student to see a wide distribution of patient situations. Includes direct patient care necessary for completion of program objectives. All skills are first taught in EMS 220 and EMS 221 in a classroom setting before being performed under direct supervision on live patients in the clinical setting. This is the first course in a two-course clinical series. Prerequisites: EMS 210, EMS 220. Corequisites: EMS 211, EMS 221. Audit available.		
SUMMER, 2022	N	EMS	232	Paramedic Clinical 2	3	Continues the field experience started in EMS 231 and is designed to expose the student to disease and injury conditions comparable to those experienced by paramedics in pre-hospital care situations. Explores multiple departments within the hospital/clinical setting, enabling the student to see a wide distribution of patient situations. Includes direct patient care necessary for completion of program objectives. All skills are first taught in EMS 220, EMS 221 and EMS 222 in a classroom setting before being performed under direct supervision in the clinical setting on live patients. This is the second course in a two-course clinical series. Prerequisites: EMS 211, EMS 221. Corequisites: EMS 212, EMS 222. Audit available.		
SUMMER, 2022	N	EMS	270	Paramedic Capstone Internship	9	Includes preceptor supervised intensive clinical training as a lead crew member aboard a licensed advanced life support transport vehicle. Links knowledge and skills learned in previous lecture, lab and clinical courses into a culminating field internship experience in which students will be required to provide evidence that they have achieved entry-level competence. Students are responsible for their own transportation to and from the clinical sites. Prerequisites: EMS 212, EMS 222, EMS 232.		

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SUMMER, 2022	D	ENG	201	Shakespeare The Early Plays	4	Provides a sampling of Shakespeare's contributions to the three primary genres of early modern theater with a focus on the early comedies, tragedies, histories, and non-dramatic poetry. Introduces the study of Shakespeare's dramatic techniques, character development, historical and cultural setting, and language. Explores interpretations of Shakespeare's works by contemporary filmmakers. Prerequisite: MTH 20 or equivalent placement test scores. Prerequisite/concurrent: WR 121. Audit available.		
SUMMER, 2022	D	ENG	202	Shakespeare's Later Works	4	Provides a sampling of Shakespeare's contributions to the three primary genres of early modern theater with a focus on the later comedies, tragedies, histories, and non-dramatic poetry. Introduces the study of Shakespeare's dramatic techniques, character development, historical and cultural setting, and language. Explores interpretations of Shakespeare's works by contemporary filmmakers. Prerequisite: MTH 20 or equivalent placement test scores. Prerequisite/concurrent: WR 121. Audit available.		
SUMMER, 2022	N	ENG	203	Introduction to Shakespeare	4	Studies representative plays from Shakespeare's early, middle, and/or late periods and sonnets relevant to play elements. Defines principal elements of Shakespearean drama. Analyzes relationships among selected elements of dramatic forms of comedy, tragedy, history and romance to determine how genre shapes the development of individual plays. Identifies key biographical, historical, social and intellectual issues in the Renaissance, Reformation, and Tudor-Elizabethan England in relation to the plays. Practices in-depth formal literary criticism of Shakespeare's text and modern performances. Prerequisite: placement into MTH 65 or MTH 98. Prerequisite/concurrent: WR 121. Audit available.		
SUMMER, 2022	N	ENG	240	Native American Literature	4	Studies literary works by Native American authors whose works are fundamental to American literature. Considers Native American texts, which may include oral traditions, novels, plays, poems, film, and manifestos. Analyzes texts' historical, cultural, geographical, and political contexts. Prioritizes Native American experience, worldview, and intellectual traditions in the study of their literature. Prerequisite/concurrent: WR 121. Audit available.		
SUMMER, 2022	N	ENG	244	Asian American Literature	4	Studies literary works by Asian American authors whose works are fundamental to American literature. Considers Asian American texts, which may include folklore, fiction, nonfiction, poetry, and graphic novels. Analyzes texts' historical, cultural, geographical, and political contexts. Prioritizes Asian American experience, worldview, and intellectual traditions in the study of their literature. Prerequisites/concurrent: WR 121. Audit available.		
SUMMER, 2022	N	ENG	257	African American Literature	4	Studies literary arts and cultural expressions by African American authors, whose works are fundamental to American Literature. Prioritizes Black experience, worldview, and intellectual traditions in the study of African American literature and scholarship. Analyzes a range of literary expression, including folklore, fiction, nonfiction, poetry, lyrics, graphic novels and oral stories, in their historical, cultural, geographical, and political contexts. Prerequisite/concurrent: WR 121. Audit available.		

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SUMMER, 2022	N	FYE	100	College Survival Skills	3	Develops time and financial management skills, in addition to facilitating campus connection and goal setting. Includes study skills, career exploration, and personal responsibility for college success. Develops skills for navigating culturally diverse learning environments and explores college resources and services. Audit available.		
SUMMER, 2022	N	IRW	115	Critical Reading and Writing	5	Prepares students for College Composition - WR 121 (the next course in the required writing sequence). Introduces the writing process with emphasis placed on thesis development, idea and essay organization, and revision. Focuses on reading as it relates to critical thinking, personal exploration, academic inquiry, and essay composition. Emphasizes the importance of understanding and responding to texts, expanding critical thinking and reading skills, developing greater research skills and information literacy, and preparing students for college composition. Prerequisites: ABE 75 or ABE 70 or GED 70 or equivalent placement. Audit available.		
SUMMER, 2022	N	IRW	115L	Foundations of Critical Reading and Writing	1	Focuses on the foundational skills, concepts, and communication needed to be successful in Critical Reading and Writing. Provides appropriate support in writing, reading, and study skills in an interactive setting. Co-requisite: IRW 115.		
SUMMER, 2022	M	MEC	120	Hydraulics and Pneumatics	5	Introduces the basic principles of hydraulics and pneumatics and applies these principles to build, maintain and troubleshoot industrial hydraulic and pneumatics circuits. Covers theory, generation, storage, transmission, and usage of hydraulic and pneumatics energy, pressure, and flow. Introduces hydraulic and pneumatics schematics and circuits as well as identification and operation of basic hydraulic and pneumatics components. Introduces basic ladder logic and PLCs to automate, control and modify an electrically controlled hydraulic and pneumatics system with solenoid-operated directional control valves. Includes a 3-hour per week laboratory session. Prerequisite: MTH 65 or equivalent placement. Audit available.	Title change (formerly: Fluid Power and Electrical Control of Fluid Power Systems)	
SUMMER, 2022	N	MFG	201	Tube and Pipe Fabrication 1	3	Introduces beginning tube and pipe fabrication with welding concepts. Covers basic mathematical concepts for tube and pipe fabrication and explores modern equipment and tooling used to create products and infrastructure from tubing and piping. Prerequisites: MFG 150, MFG 155. Audit available.		
SUMMER, 2022	N	MFG	202	Tube Fabrication	3	Builds on MFG 201 to integrate mathematical concepts and technical literacy to generate useful products created from tubing. Focuses on tube fabrication. Integrates multiple welding skills and tubing specific fabrication equipment, industry standard products are created and toleranced to specification. Prerequisites: MFG 201. Audit available.		
SUMMER, 2022	N	MFG	203	Pipe Fabrication and Welding	3	Develops a wide variety of pipe welding skills and fabrication skills, and serves as an introduction into the pipe welding and steamfitting industries. Explores industry requirements and procedures, necessary math and tool skills needed to begin in fields related to welding pipe. Prerequisite MFG 201. Audit available.		
SUMMER, 2022	N	MFG	210	Introduction to Computer Aided Design and Tolerancing	3	Introduces digital design using modern CAD programs in two dimensions and introduces three dimensional drawings. Explores basic dimensioning to Geometric Dimensions and Tolerancing as used in blueprints. Covers multi-view drawings, part and assembly drawings. Prerequisites: MFG 155. Audit available.		

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SUMMER, 2022	N	MFG	211	CAD Design for CNC Manufacturing 1	3	Prepares students for working with and creating three dimensional drawings that are used in manufacturing with CNC equipment. Introduces solid modeling concepts. Prerequisite MFG 210. Audit available.		
SUMMER, 2022	N	MFG	212	CAD Design for CNC Manufacturing 2	3	Covers creating drawings for existing 3 dimensional objects for reproduction. Explores multi-part assemblies and assembly drawings as well as assembly animations and their utilization in lean manufacturing. Continues development of tool use in 3d drafting software and solid modeling skills including application in reproduction of products. Prerequisites: MFG 211. Audit available.		
SUMMER, 2022	N	MFG	220	Production Manufacturing 1	3	Introduces use of whole shop production methods for producing parts and assemblies. Describes the use of math and lean manufacturing principles to streamline production and prototyping in the industrial environment. Prerequisites: MFG 157. Audit available.		
SUMMER, 2022	N	MFG	221	Production Manufacturing 2	3	Explores CNC operations processes and their role in creating a product from solid 3d modeling. Utilizes numerous systems of control and manufacturing processes to create streamlined research and development and rapid prototype products for testing. Prerequisite MFG 220. Audit available.		
SUMMER, 2022	N	MFG	222	Production Manufacturing 3	3	Combines the use of CNC technology and other metalworking and welding techniques to create a simulated production fabrication environment from design to prototype. Utilizes numerous integrated math and technology aspects to accurately produce products. Explores manufacturing problem solving and critical thinking. Prerequisites: MFG 221. Audit available.		
SUMMER, 2022	N	MFG	290	Student Production Manufacturing Lab	4	Practices creation, design and strategy implementation for a long term product on a medium to large scale. Includes opportunities for working with local businesses, governmental agencies, or on private projects of a larger scale. Emphasizes engagement with community partners for development of manufacturing-based solutions. Prerequisite/concurrent: MFG 212, MFG 222.		
SUMMER, 2022	D	MTH	20	Basic Math	4	Introduces and reinforces whole numbers, place value, fractions, decimals, percents, integers, measurements, and basic statistics. Emphasizes writing, manipulating, interpreting and solving application problems. A calculator is required. Prerequisite: Placement into Math 20 and RD 90. Audit available.		
SUMMER, 2022	D	MTH	60	Beginning Algebra I	4	Covers the use of applications, formulas, and reasoning skills to write, manipulate, interpret, solve and graph linear equations and systems. Introduces concepts numerically, graphically, and symbolically. Develops skills to communicate results in oral and written form. Prerequisites: MTH 20 or equivalent placement test scores.		
SUMMER, 2022	M	MTH	98	Quantitative Math	4	Covers applied number sense, applied algebraic reasoning and modeling, graphical sense, measurement, formula use for basic geometric figures, and statistical reasoning. Explores how to appropriately communicate mathematical arguments that are supported by quantitative evidence using words, graphs, numbers, and algebra. Prerequisites: placement into IRW 115 or WR 115; placement into MTH 98. Audit available.	Revised requisites (formerly: Prerequisites: placement into RD 90 and WR 90; MTH 20 or equivalent placement test scores); revised description.	
SUMMER, 2022	M	MTH	111	College Algebra	4	Explores relations and functions graphically, numerically, symbolically, and verbally. Examines exponential, logarithmic, power, polynomial, and rational functions. Investigates applications from a variety of perspectives. Prerequisite: MTH 95 or equivalent placement. Prerequisite/concurrent: WR 121. Audit available.	credit / contact hour change: formerly 5 credits with 5 hours of lecture - revised to 4 credits with 3 hours of lecture and 2 hours of lec/lab.	

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SUMMER, 2022	M	MTH	112	Elementary Functions	5	Investigates periodic functions, trigonometric identities, vectors, polar coordinates, parametric equations, complex numbers and applications. Prerequisite: MTH 111 or equivalent placement. Prerequisite/concurrent: WR 121. Audit available.	Revised description.	
SUMMER, 2022	M	MTH	243	Statistics I	4	Introduces displaying data with graphs, numerical descriptions of data, producing data, elementary probability, probability distributions, confidence intervals and significance testing. Investigates applications from science, business, and social science perspectives. Prerequisite: MTH 95 or MTH 98 or equivalent placement. Prerequisite/concurrent: WR 121. Audit available.	credit / contact hour change: formerly 5 credits with 55 hours of lecture - revised to 4 credits with 33 hours of lecture and 22 hours of lec/lab. Revised description.	
SUMMER, 2022	M	MTH	251	Calculus I	5	Includes limits, continuity, derivatives and applications. Prerequisite: MTH 112. Audit available.	Revised description.	
SUMMER, 2022	M	MTH	252	Calculus II	5	Includes anti-derivatives and integrals, definite and improper integrals, and applications including direct application of integration and solving basic differential equations. Prerequisites: MTH 251 and its prerequisite requirements. Audit available.	Revised description.	
SUMMER, 2022	M	MTH	253	Calculus III	5	Includes infinite sequences and series, Taylor series and applications, equations of lines and planes in three dimensions, vectors in 3D, and differentiation and integration of vector valued functions with applications. Prerequisites: MTH 252 and its prerequisite requirements. Audit available.	Revised description.	
SUMMER, 2022	N	MTH	105L	Foundations of Math in Society	1	Focuses on the foundational skills, concepts, and communication needed to be successful in MTH 105 Math in Society. Provides appropriate support in arithmetic skills, algebra skills, technology, and study skills in an interactive setting. Corequisite: MTH 105.		
SUMMER, 2022	D	MTH	20B	Basic Math	4	Introduces and reinforces whole numbers, place value, fractions, decimals, percents, integers, measurements, and basic statistics. Emphasizes writing, manipulating, interpreting and solving application problems. A calculator is required. Prerequisite: Placement into Math 20 and RD 90. Audit available.		
SUMMER, 2022	N	MTH	243L	Foundations of Statistics	1	Focuses on the foundational skills, concepts, and communication needed to be successful in MTH 243 Statistics I. Provides appropriate support in arithmetic skills, algebra skills, technology, and study skills in an interactive setting. Corequisite: MTH 243.		
SUMMER, 2022	N	MTH	95L	Foundations of Intermediate Algebra	1	Focuses on the foundational skills, concepts, and communication needed to be successful in MTH 95 Intermediate Algebra. Provides appropriate support in arithmetic, algebra, technology, and study skills in an interactive setting. Co-requisite: MTH 95.		
SUMMER, 2022	M	OS	240	Records and Information Management	4	Introduces records and information management (RIM) of both physical and electronic records. Develops industry standard filing skills using various filing methods. Examines the role of information governance in a business setting. Addresses the ethical and legal considerations of RIM. Recommended: Word processing and spreadsheet skills. Audit available.	Title change (formerly: Filing and Records Management); Revised requisites (formerly: Recommended: RD 115, WR 115; and CAS 133 or CAS 140); revised description	
SUMMER, 2022	D	RD	90	Transformative Reading	3	Improves reading skills and strategies, including identifying purpose, improving reading accuracy, developing vocabulary, self-monitoring and improving text analysis. Placement into RD 90. Audit available.		

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SUMMER, 2022	M	SAF	188	Industrial Safety and OSHA 10	1	Introduces industrial safety practices and covers industry OSHA-10 Construction Safety Training. Includes handling hazardous materials; safe use of flammable and combustible liquids; types of personal protective equipment (PPE); fall protection; crane, ladder and scaffolding safety; safe use of hand and power tools. An OSHA 10 card will be earned through the satisfactory, in-class completion of OSHA 10 construction safety and health requirements.	Changed credits from 2 to 1 (11 hour of lecture); revised description	
SUMMER, 2022	M	UAS	101	Introduction to Unmanned Aircraft Systems	5	Introduces the fundamentals of Unmanned Aircraft Systems (UAS), including their history and developing role in the modern aviation industry. Includes UAS applications, UAS systems, human factors, UAS design, power system, communication systems, FAA regulations, public policies and the future potential of the UAS. Prerequisites: IRW 115 or WR 115, MTH 65, or equivalent placement. Audit available.	Credit change from 4 to 5 credits; requisite change (formerly: Prerequisites: MTH 65 or higher, WR 115, RD 115.); revised description.	
SUMMER, 2022	D	WR	90	Introductory Writing	3	Includes instruction in grammar, punctuation, sentence structure, paragraph development, essay development, and critical thinking skills. Improves basic writing skills by learning to use simple and complex sentences in developing a coherent essay, and by developing critical thinking skills that are used in the writing process. Prerequisites: Placement into WR 90 and RD 90. Audit available.		
SUMMER, 2022	M	WR	121	College Composition	4	Introduces academic writing as a means of inquiry. Employs critical reading, discussion and the writing process to explore ideas, develop cultural awareness and formulate positions. Emphasizes development of a variety of strategies to present evidence in support of a thesis. Prerequisite: IRW 115 or WR 115 or equivalent placement. Audit available.	Title change: formerly "English Composition"; requisite revision (formerly: Prerequisite: Placement into WR 121, or completion of WR 115 and RD 115.); revised description.	
SUMMER, 2022	N	WR	123	Research Writing	4	Continues writing sequence with emphasis on argumentation and extensive research. Develops skills in analysis and synthesis of varied responses to issues and/or course themes. Provides advanced instruction and practice in information literacy skills through use of library catalogs, databases, and other forms of research. Prerequisite: WR 121. Audit available.		
SUMMER, 2022	N	WR	121L	Foundations of College Composition	1	Focuses on the foundational skills, concepts, and communication needed to be successful in College Composition. Provides appropriate support in writing, critical reading, and study skills in an interactive setting. Co-requisite: WR 121.		
SUMMER, 2022	D	WR	90C	Introductory Writing	3	Includes instruction in grammar, punctuation, sentence structure, paragraph development, essay development, and critical thinking skills. Improves basic writing skills by learning to use simple and complex sentences in developing a coherent essay, and by developing critical thinking skills that are used in the writing process. Prerequisites: Placement into WR 90 and RD 90. Audit available.		
SUMMER, 2022	M	Majority of courses in catalog			1-6	various	Requisite change for majority of courses in catalog - addresses change in developmental RD, WR and MTH offerings. Removes or replaces requisites that include MTH 20, MTH 20B, MTH 60, RD 90, RD 115, and WR 90.	
WINTER, 2022	M	MFG	150	Manufacturing Processes	3	Introduces basic manufacturing processes used in industry. Expands on joints learned in WLD 195 to out of position welding joints. Emphasizes weld quality, joint quality and measurement tolerances for welding processes used in industry. Introduces additional tools used in welding trades. Prerequisite/concurrent: MFG 195. Audit available.	Revised requisites (formerly Prerequisite: WLD 195); revised description.	

[CGCC] Curricular Changes - Effective for Academic Year [2022-23]

This list submitted to OrACRAO on: [\[August 31, 2022\]](#)

Curricular Change Cycle: [\[Annual\]](#)

Annual submission date: [\[August 31\]](#)

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Effective Term	New (N) Modified (M) Deleted (D)	Prefix	Course#	Course Title	Credits	Course Description	Type of Change (for modified classes only)	Comments
WINTER, 2022	M	MFG	155	Blueprint Reading	3	Introduces reading and creating basic technical drawings. Explores fabricating from drawings to industry specification and tolerances, creating and drawing parts in computer software, and integrating with CNC part generation and computer aided blueprint design. Prerequisite/concurrent: MFG 195. Audit available.	Revised requisites (formerly Prerequisite: WLD 195); revised description.	
WINTER, 2022	M	MFG	195	Welding Technology I	3	Introduces the operation of equipment and tools used in standard welding and manufacturing shops. Identifies procedures, practices and skills used by welders including commonly used welding machines and the equipment used to cut and finish material. Audit available.	Revised prefix: formerly WLD	
WINTER, 2022	M	MFG	280	Aluminum GTAW/TIG Welding	3	Introduces students to the use of GTAW/TIG equipment on aluminum alloys, and the methods and techniques for welding on them. Explores different electrical waveforms and frequencies needed for joint, pipe and butt weldment as well as covering prep of materials, consumables and tungsten. Prerequisites: MFG 195, MFG 150. Audit available.	Revised requisites (formerly Prerequisite: WLD 195; Prerequisite/concurrent: MFG 150); revised description.	
WINTER, 2022	M	MFG	281	Aluminum GTAW/TIG Fabrication Processes 1	3	Builds on the knowledge of MFG 280 by beginning structural code welding practice and deepening knowledge of GTAW AC processes as they pertain to welding aluminum and alloys. Provides experience creating multipart assemblies as in a production manufacturing environment. Corequisites: MFG 280. Audit available.	Revised requisites (formerly Prerequisite: MFG 280); revised description.	
WINTER, 2022	M	MFG	285	Stainless Steel GTAW/TIG Welding	3	Introduces the use of GTAW/TIG equipment on stainless steel alloys, and the methods and techniques for welding on them. Explores different techniques and special shielding gas requirements for pipe, fillet and butt weldment as well as covering prep of materials, consumables and tungsten. Prerequisites: MFG 195, MFG 150. Audit available.	Revised requisites (formerly Prerequisites: WLD 195,; Co-Requisite: MFG 150); revised description.	
WINTER, 2022	M	MFG	287	Stainless Steel GTAW/TIG Fabrication 2	3	Builds on MFG 286, introducing Position 3 AWS D1.6 structural code destructive testing as well as working with welding and preparing tube/pipe and pressure vessels. Provides critical skills to handle warp as well as sanitary/food grade stainless steel welding processes. Corequisites: MFG 286. Audit available.	Revised requisites (formerly Prerequisite: MFG 286); revised description.	
WINTER, 2022	M	WR	122	Argumentative Writing	4	Continues the focus of WR 121 on academic writing as a means of inquiry with added emphasis on persuasion and argument supported by external research. Uses critical reading, discussion and the writing process to explore ideas, develop cultural awareness and formulate original positions. Emphasizes development of writing and critical thinking through logical reasoning, rhetorical control, independent research and information literacy. Prerequisite: WR 121. Audit available.	Revised title: formerly English Composition	