

## [CGCC] Curricular Changes - Effective for Academic Year [2021-22]

This list submitted to OrACRAO on: [\[June 30, 2021\]](#)

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
SPRING, 2021	N	ABE	80	Pre-College Math I	0	Focuses on number sense and operations, including integers, fractions, ratios/proportions, decimals and percent. Includes a solid understanding of charts, graphs, and measurements. Introduces statistics, algebra, and geometry. This is the first course in a two-course series that prepares students for taking the math portion of the GED exam or entry-level credit math courses.		
SPRING, 2021	N	ABE	90	Pre-College Math II	0	Builds upon the skills gained in Pre-College Math I. Strengthens students' mathematical skills in algebra, geometry and use of the coordinate grid using a variety of written materials, classroom activities and assignments. Prepares students for entry into credit bearing college math courses and/or taking the mathematical portion of the GED test. Prerequisites: ABE 80 or GED 80 with final exam score of 70% or higher, or CASAS math score of 225 or higher.		
SPRING, 2021	N	GED	80	Pre-College Math I	0	Focuses on number sense and operations, including integers, fractions, ratios/proportions, decimals and percent. Includes a solid understanding of charts, graphs, and measurements. Introduces statistics, algebra, and geometry. This is the first course in a two-course series that prepares students for taking the math portion of the GED exam or entry-level credit math courses.		
SPRING, 2021	N	GED	90	Pre-College Math II	0	Builds upon the skills gained in Pre-College Math I. Strengthens students' mathematical skills in algebra, geometry and use of the coordinate grid using a variety of written materials, classroom activities and assignments. Prepares students for entry into credit bearing college math courses and/or taking the mathematical portion of the GED test. Prerequisites: ABE 80 or GED 80 with final exam score of 70% or higher, or CASAS math score of 225 or higher.		
SUMMER, 2021	N	ABE	60	Pre-College Language Arts I: Science & Social Studies	0	Introduces basic grammar, sentence structure and paragraph writing, incorporating regular practice through the use of journals and descriptive paragraphs. Develops and builds reading comprehension skills, both fiction and non-fiction, while exploring content within the language arts, social studies and science. Includes an introduction to the interpretation of graphs, charts, time lines, etc.		
SUMMER, 2021	N	ABE	70	Pre-College Language Arts II: Science & Social Studies	0	Improves reading comprehension, both fiction and non-fiction, and develops understanding and use of academic vocabulary related to language arts, social studies and science. Examines the evaluation of information and whether arguments are logical and evidence-based. Deepens understanding of basic grammar and sentence structure, and introduces paragraph and essay writing. Includes writing practice through journaling, descriptive paragraphs, essays, and GED written response. Covers the knowledge and skills applicable to achieving placement into college level courses and/or attempting official GED exams (Reasoning through Language Arts, Social Science, and Science). Prerequisites: ABE 60 or GED 60 or department permission.		
SUMMER, 2021	N	ABE	75	Writing for College Preparation	0	Includes instruction in basic grammar skills, punctuation, sentence structure, and paragraph development. Covers development of a thesis statement, essay organization and writing of a 5 paragraph essay; in addition to the revision process for clarity and correctness.		
SUMMER, 2021	M	BA	211	Principles of Accounting I	4	Introduces financial accounting theory, including the accounting cycle, analysis and recording of transactions, and reporting financial information in accordance with generally accepted accounting principles. Recommended: MTH 60. Prerequisites: WR 115 and RD 115 or equivalent placement test scores. Audit available.	Increased credits from 3 to 4. Revised requisites (formerly Recommended: MTH 60. Prerequisites: WR 115, RD 115, and MTH 20 or equivalent placement test scores.). Revised description.	

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SUMMER, 2021	M	BA	212	Principles of Accounting II	2	Introduces statement of cash flows and financial statement analysis and continues the presentation of fundamental accounting issues begun in BA 211. Prerequisite: BA 211. Audit available.	Decreased credits from 3 to 2.	
SUMMER, 2021	M	CAS	170	Beginning Spreadsheets using Excel	3	Introduces the basic features of spreadsheet concepts to design and create accurate professional worksheets for use in business and industry. Includes entering data, creating formulas, professional formatting, creating charts, creating, sorting, and filtering lists, creating and using templates, and working with functions. Introduces the basics of Pivot Tables, Pivot Charts, and Solver. Focuses on ways to ensure accuracy including proofreading techniques and critical thinking to determine what data to present and how to present it. Recommended: placement into RD 115, WR 115 and MTH 20. Audit available.	revised description	
SUMMER, 2021	M	CAS / WT	101	Introduction to Web Design & Development	1	Explores the different roles, skill sets, jobs, and tools associated with the website development and design industry. Introduces the Web Design Assistant & Development program, including course options, software, and basic web terminology, as well as the uploading of pages to a server using File Transfer Protocol (FTP) and equipment requirements. Recommended: CAS 133 or equivalent file management and word processing experience. Prerequisites: WR 115 and RD 115 or equivalent placement test scores. Audit available.	Prefix change from CAS to WT. Revised description. Revised requisites (formerly: WR 115, RD 115 and MTH 20 or equivalent placement test scores).	
SUMMER, 2021	M	CAS / WT	102	Social Media Marketing	3	Examines social media platforms, tools and strategies. Covers social media policy, legal considerations and community etiquette. Recommended: WR 115, RD 115. Audit available.	Prefix changed (previously CAS); Title changed (previously "Marketing with Social Media"); requisite change (previously Prerequisites: WR 115, RD 115 and MTH 20 or equivalent placement test scores); revised description	
SUMMER, 2021	M	CAS / WT	105	Writing for the Web	3	Examines elements of effective online writing and digital content design. Develops skills in grammar and proofreading. Introduces search engine optimization techniques, accessibility, copyright laws and open resources. Recommended: RD 115, WR 115. Audit available.	Prefix changed (previously CAS)	
SUMMER, 2021	M	CAS / WT	106	Intro to HTML for Designers	2	Introduces beginning HTML (Hypertext Markup Language) for designers of web pages. Includes codes and tags, FTP (file transfer protocol), and validating HTML codes using industry standards. Introduces elements of web design including story boarding, color palettes, fonts, and layout. Introduces web site organization and navigation via internal and external links. Compares and contrasts hosting services, including cost, technical support, and additional services such as PHP, JavaScript, shopping carts, and SEO. Recommended: CAS 133. Audit available.	Prefix change from CAS to WT.	
SUMMER, 2021	M	CAS / WT	180	Search Engine Optimization	2	Examines search engine basics, on and off-site optimization and analytics. Develops skills and techniques for Search Engine Optimization (SEO). Introduces Search Engine Optimization strategy and research techniques to stay current on industry SEO standards. Recommended WT 101. Audit available.	Prefix change from CAS to WT. Revised description. Revised requisites (formerly: Recommended CAS 101).	
SUMMER, 2021	M	CAS / WT	200	Web Trends	1	Identifies trends in web design and development, and explores limitations and opportunities for developing web applications on tablets and mobile devices such as cell phones. Explores the history of web design, the migration from static text pages to multimedia and cloud computing, and how different browsers and devices render web pages and content. Recommended: CAS 133 or equivalent file management and word processing experience. Prerequisite: WT 101. Audit Available.	Prefix change from CAS to WT. Revised description. Revised requisites (formerly: Recommended: CAS 133 or equivalent file management and word processing experience; CAS 101.)	

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SUMMER, 2021	M	CAS / WT	206	Web Design with HTML	4	Introduces Hypertext Markup Language (HTML) using HTML5 standards. Presents the foundation for future web design course work and career opportunities: hand coding of basic HTML; links, lists, tables, and forms; web graphics and colors; accessibility; best practices; and an introduction to Cascading Style Sheets (CSS). Includes creating a multi-page website and uploading the site using File Transfer Protocol (FTP). Recommended: CAS 133. Audit available.	Prefix change from CAS to WT. Revised description. Revised requisites (formerly: WR 115, RD 115 and MTH 20 or equivalent placement test scores; CAS 133.)	
SUMMER, 2021	M	CAS / WT	213	Cascading Style Sheets	4	Introduces the use of external Cascading Stylesheets (CSS) to format web pages that comply with industry and accessibility standards, work in multiple browsers, and adapt to a variety of screen display sizes. Includes established CSS terminology as well as CSS3 innovations, applying graceful degradation and progressive enhancement to provide improved aesthetics and usability for the web user. Prerequisites: WR 115, RD 115 or equivalent placement test scores; WT 106 or WT 206. Audit available.	Prefix change from CAS to WT. Revised description. Revised requisites (formerly: WR 115, RD 115 and MTH 20 or equivalent placement test scores; CAS 106 or 206).	
SUMMER, 2021	M	CAS / WT	215	JavaScript and jQuery	4	Introduces JavaScript for writing client-side scripts for creating dynamic (interactive) web pages. Explores ways to make a web site come alive with a variety of interactive effects such as displaying and hiding text or images, filling out form fields automatically, and creating interactive maps or calendar. Uses jQuery, an extensive, feature-rich library to make JavaScript more accessible to the novice web designer. Prerequisite: WT 213. Audit available.	Prefix change from CAS to WT. Revised description. Revised requisites (formerly: CAS 213).	
SUMMER, 2021	M	CAS / WT	225	Database Theory and MySQL	4	Develops an understanding of relational database concepts and terminology, database design concepts and Structured Query Language (SQL). Introduces the use of languages and technology used to integrate data within a web site. Prerequisites: WR 115, RD 115 or equivalent placement test scores; WT 213. Audit available.	Prefix change from CAS to WT. Revised description. Revised requisites (formerly: WR 115, RD 115 and MTH 20 or equivalent placement test scores; CAS 213.)	
SUMMER, 2021	M	CAS / WT	235	Graphic Design	4	Provides an overview of practical and effective design processes. Develops skills in digital illustration, page layout, image-scanning, image manipulation, digital printing processes and photography. Prerequisites: CAS 230. Audit available.	Prefix change from CAS to WT.	
SUMMER, 2021	N	CT	101	Tools and Shop Safety	3	Explores hand tools and power tools used in the construction trades. Identifies common tools and how to select the correct tool for the task. Introduces ladders and scaffolding and their safe use. Covers common fall hazards – how to recognize and control them to protect yourself. Prerequisites: MTH 60 or MTH 98, RD 90, WR 90 or equivalent placement test scores. Audit Available.		
SUMMER, 2021	N	CT	102	Footings and Foundations	3	Introduces the construction of wood and concrete foundations. Explores determining property lines, setting building corners and establishing grades and elevations. Provides hands-on experience in the building of concrete footings and foundation wall forms. Prerequisites: MTH 60 or MTH 98, RD 90, WR 90 or equivalent placement test scores. Audit Available.		
SUMMER, 2021	N	CT	103	Building Materials and Methods	3	Introduces function and performance characteristics of basic building materials and components. Addresses methods and sequences in the construction process. Prerequisites: MTH 60 or MTH 98, RD 90, WR 90 or equivalent placement test scores. Audit Available.		
SUMMER, 2021	N	CT	104	Floor Framing	3	Introduces basic floor framing systems and principles used in construction. Includes floor system install on foundations using current building construction methods. Explores floor leveling, sill plate installation, and joist and beam lay-out. Prerequisites: MTH 60 or MTH 98, RD 90, WR 90 or equivalent placement test scores. Audit Available.		

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SUMMER, 2021	N	CT	105	Wall and Ceiling Framing	3	Introduces wall framing methods and principles currently used in construction and following Oregon building codes. Includes wall layout and assembly of studs, corners, partitions and openings. Addresses the calculation of material quantities and the application of related building codes. Prerequisites: MTH 60 or MTH 98, RD 90, WR 90 or equivalent placement test scores. Audit Available.		
SUMMER, 2021	N	CT	106	Roof Framing	3	Introduces the theory and practice of roof framing. Includes calculations to determine rafter lengths for slopes and spans. Addresses erecting and installing trusses and techniques for rafter installation. Prerequisites: MTH 60 or MTH 98, RD 90, WR 90 or equivalent placement test scores. Audit Available.		
SUMMER, 2021	N	CT	110	Electrical Wiring Basics	3	Provides basic knowledge of electrical wiring and AC and DC circuits. Introduces electrical codes, ordinances, print reading and electricity fundamentals. Prerequisites: MTH 60 or MTH 98, RD 90, WR 90 or equivalent placement test scores. Audit Available.		
SUMMER, 2021	N	CT	111	Plumbing Basics	3	Explores basic skills needed to assist with installation and repair of plumbing systems. Introduces plumbing plans and drawings, measuring for plumbing materials and safe operation of plumbing tools. Prerequisites: MTH 60 or MTH 98, RD 90, WR 90 or equivalent placement test scores. Audit Available.		
SUMMER, 2021	N	CT	112	Basic Stair Construction	3	Explores the rise and run ratio for stair construction. Includes material estimation and installation of both open and closed interior staircases. Emphasizes the relevant building codes in stair construction. Prerequisites: MTH 60 or MTH 98, RD 90, WR 90 or equivalent placement test scores. Audit Available.		
SUMMER, 2021	N	CT	113	Building Decks and Porches	3	Introduces the methods and materials used for proper site preparation in deck and porch installations. Outlines the steps followed in the construction of a deck or porch. Covers the identification of defects that impact safety in wood and composite decks and porches. Prerequisites: MTH 60 or MTH 98, RD 90, WR 90 or equivalent placement test scores. Audit Available.		
SUMMER, 2021	N	CT	114	Windows and Exterior Doors	3	Introduces the various types of windows, skylights, and exterior doors available and their proper use. Provides instructions for installation. Includes procedures for installing weather-stripping and locksets. Prerequisites: MTH 60 or MTH 98, RD 90, WR 90 or equivalent placement test scores. Audit Available.		
SUMMER, 2021	M	ECE	121	Guidance & Classroom Management: Birth to Age 8	3	Covers guidance techniques and classroom management strategies for individual and groups of young children that are grounded in developmentally appropriate practices which support pro-social behaviors for children birth to age eight. Examines early childhood guidance principles, theories and research with an emphasis on intentional teaching practices, including supportive interactions and environmental design for children birth to age 8. Prerequisites: RD 90, WR 90 or equivalent placement test scores. Audit available.	Revised title (previously Guidance & Classroom Management); revised description.	
SUMMER, 2021	M	ECE	122	Environments & Curriculum: Birth to Age 8	4	Explores the teacher's role in facilitating play in early childhood. Covers effective teaching practices that support diverse learners. Focuses on developing meaningful and challenging curriculum and incorporating developmentally and culturally appropriate pedagogy to design physical, social, and temporal environments for children birth to age 8. Prerequisites: RD 90, WR 90 or equivalent placement test scores. Audit available.	Revised title (previously Environments and Curriculum in Early Childhood Ed I); revised description.	

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SUMMER, 2021	D	ECE	123	Environments and Curriculum in Early Childhood Ed II	4	Demonstrates the knowledge of child development and learning, as well as content knowledge, both in terms of academic disciplines and interdisciplinary integration. Explores the use of developmentally and culturally appropriate practices in creating physical and social environments and curriculum for children six weeks to ten years. Employs theories of play and early care and education to plan and implement curriculum and environments for children. Includes students planning, implementation, and evaluation of environments and curriculum for young children. Prerequisite: ECE 122. Audit available.		
SUMMER, 2021	M	ECE	200	Professionalism & Advocacy	3	Examines the characteristics of early childhood education as a profession, including key competencies, roles and responsibilities, current issues and trends. Focuses on use of the NAEYC Code of Ethics to guide daily practices and decision-making. Prepares students to become advocates for children, families, self and the profession. Prerequisites: RD 90, WR 90 or equivalent placement test scores; ECE 120. Audit available	revised description	
SUMMER, 2021	N	ECE	222	Resilience & Wellness for Educators	3	Supports educators' ability to positively adapt in the face of adverse circumstances by teaching positive skills, strategies, and routines that enable them to live happy, fulfilling, and successful lives while enhancing their love of the profession. Covers the identification, justification, and application of resilience and wellness practices necessary to become an effective educator of young children. Prerequisites: RD 90 and WR 90 or equivalent placement test scores. Audit available.		
SUMMER, 2021	M	ECE	223	Supporting Dual Language Learners: Birth to Age 8	3	Focuses on the language development of children who are dual language learners (DLLs), ages birth-to-eight years, with attention on all children developing oral and written language abilities in their home language(s) and in English. Connects assessment and instruction in order to identify effective instructional techniques and strategies that promote early language and literacy learning for the DLL child. Emphasizes family and community connections in the fostering of language and literacy learning. Prerequisite/concurrent: RD 115, WR 115 or equivalent placement test scores. Audit available.	Title change (formerly Supporting Dual Language Learners); revised description.	
SUMMER, 2021	N	ECE	232	S.T.E.A.M: Birth to Age 8	3	Develops the knowledge and skills necessary for creating inclusive environments and curricular activities. Provides training in the use of observation and assessment to scaffold young children's understanding of science, technology, engineering, art, and mathematics. Emphasizes using a variety of tools and methods to support, document, and extend children's learning. Prerequisites: RD 115, WR 115 or equivalent placement test scores. Audit available.		
SUMMER, 2021	M	ECE	234	Inclusion of Children with Special Needs	3	Examines history and laws related to special education in the United States. Covers disabilities and delays for children ages birth to eight, screening and assessment tools, the IFSP and IEP process, and advocating with families to access necessary special education services. Explores strategies for creating inclusive early learning environments. Prerequisite/concurrent: RD 115, WR 115 or equivalent placement test scores. Audit available.	Revised Requisites (formerly Prerequisites: RD 115, WR 115 or equivalent placement test scores); revised description.	



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SUMMER, 2021	M	ECE	235	Art, Music & Movement: Birth to Age 8	3	Studies the development of exploration, play, and creative expression in the areas of art, music, and movement, focusing on young children ages birth to 8. Addresses the concepts of age and developmental appropriateness when designing activities. Includes hands-on experience with activities that inform the use of techniques, strategies, and materials with young children in the classroom. Explores strategies for intervention and support for exceptional children and English language learners. Draws strong connections between classroom activities and expectations and the NAEYC standards. Prerequisites: RD 115, WR 115 or equivalent placement test scores. Audit available.	Title change (formerly Music & Movement for the Young Child); revised description.	
SUMMER, 2021	N	ECE	237	Trauma-Informed Care and Education: Birth to Age 8	3	Develops knowledge and skills that support the learning and development of young children, birth to age 8, who have been adversely impacted by trauma. Explores types and symptoms of trauma, and emphasizes trauma-informed practices that can be applied in the child's home and school setting. Identifies available resources and recognized strategies for working collaboratively with families and other professionals. Prerequisites: RD 115 and WR 115 or equivalent placement test scores. Audit available.		
SUMMER, 2021	D	ECE	264	Advanced Practicum 1	4	Introduces advanced skills necessary to work with children birth - 5 in a community field placement setting. Includes developmental theory, developmentally and culturally appropriate practices, and individualized methods to support guidance and conflict resolution. Covers the evaluation of environments and curriculum, building family and community relationships, and professionalism. Department permission. Prerequisites: ECE 135, HEC 226, ECE 221, WR 121. Corequisites: ECE 260A, ECE 200, ECE 234.		
SUMMER, 2021	D	ECE	260A	Advanced Practicum Seminar 1	3	Refines skills necessary for supporting the total development of children, ages 6 weeks to 6 years, in a group setting and to integrate child development theory and practice in two interdependent components: seminar and field work experience. Department permission required. Prerequisites: Certificate level courses plus WR 121, HEC 226, ECE 221. Corequisite: ECE 264.		
SUMMER, 2021	M	EMS	105	EMT Part I	6	Introduces the role of the Emergency Medical Technician (EMT) at the novice level. Develops the necessary understanding of human anatomy and physiology, as well as knowledge of relevant medical terminology. Provides training in the identification and use of EMT equipment, the assessment of patient status and development of a patient plan, the use of appropriate interventions, and professional and interpersonal communication in the prehospital setting. Explores the use of evidence-based practices in the EMT field, and provides an introduction to the legal and ethical issues that may be encountered by the novice EMT. This is Part 1 of the 2-part Oregon EMT series. Course sequence requires a mandatory orientation, and passing a criminal background check and drug screen. Prerequisites: WR 115, RD 90, MTH 60 or equivalent placement test scores; current HCP CPR card. Audit available.	Increased credits from 5 to 6. Revised requisites (formerly Prerequisites: WR 115, RD 90, MTH 20 or equivalent placement test scores; current HCP CPR card.) Revised description.	

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SUMMER, 2021	M	EMS	106	EMT Part II	6	Continues EMS 105. Develops the basic knowledge and skills necessary to treat victims of trauma, patients that present with special challenges, and sick and injured pediatrics. Expands knowledge and understanding of specific incidents that the Emergency Medical Technician may encounter in the field such as mass-casualty incidents, hazardous materials, motor vehicle collisions, and acts of terrorism. Includes preparation for state and national licensing exams. Requires meeting Oregon Health Authority Standards for health profession student clinical training, including immunizations, TB screening and the ability to pass a criminal background check and drug screen before placement into mandatory clinical observations in hospital emergency department and ambulance ride-along experience. Prerequisites: completion of EMS 105 with a "C" or better at CGCC within the previous 5 terms; current HCP CPR card.	Increased credits from 5 to 6.	
SUMMER, 2021	N	GED	60	Pre-College Language Arts I: Science & Social Studies	0	Introduces basic grammar, sentence structure and paragraph writing, incorporating regular practice through the use of journals and descriptive paragraphs. Develops and builds reading comprehension skills, both fiction and non-fiction, while exploring content within the language arts, social studies and science. Includes an introduction to the interpretation of graphs, charts, time lines, etc.		
SUMMER, 2021	N	GED	70	Pre-College Language Arts II: Science & Social Studies	0	Improves reading comprehension, both fiction and non-fiction, and develops understanding and use of academic vocabulary related to language arts, social studies and science. Examines the evaluation of information and whether arguments are logical and evidence-based. Deepens understanding of basic grammar and sentence structure, and introduces paragraph and essay writing. Includes writing practice through journaling, descriptive paragraphs, essays, and GED written response. Covers the knowledge and skills applicable to achieving placement into college level courses and/or attempting official GED exams (Reasoning through Language Arts, Social Science, and Science). Prerequisites: ABE 60 or GED 60 or department permission.		
SUMMER, 2021	N	MFG	151	Fabrication Processes 1	3	Builds on fabrication principles started in MFG 150 and adds Pos 4 welding on mild steel in groove and fillet fitments. Focuses on scientific principles that effect weld outcomes and how those principles can be used by welders to ensure quality weld and fabrication outcomes. Teaches use of Oxy-Fuel cutting equipment. Prerequisites: MFG 150. Audit available.		
SUMMER, 2021	N	MFG	152	Fabrication Processes 2	3	Introduces common remanufacturing principles as well as basic material science as it applies to welding and weld processes in the manufacturing environment. Covers in depth material handling and processing for mild steel welding projects as well as mark up and annotation for large project work. Teaches skills a welding floor foreman would routinely use. Prerequisites: MFG 150. Audit available.		
SUMMER, 2021	N	MFG	156	Integrated Manufacturing 1	3	Integrates the use of the 3 axis CNC, blueprints and manufacturing processes in the design and production of products. Introduces tolerances and quality control procedures, as well as backwards design principles and orthographic projection. Prerequisite: MFG 155. Audit available.		

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SUMMER, 2021	N	MFG	157	Integrated Manufacturing 2	3	Covers the creation of multi-part assemblies and the process of welding them together to specification. Builds on the precision measuring and quality control tolerance checks introduced in MFG 156. Discusses the integration of efficiencies and lean manufacturing principles in the everyday operations of a manufacturing business. Teaches how to build fixtures that accurately and repeatedly create product to tolerance. Prerequisites MFG 156. Audit available.		
SUMMER, 2021	N	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. Prerequisites: MFG 280. Audit available.		
SUMMER, 2021	N	MFG	282	Aluminum GTAW/TIG Fabrication Processes 2	3	Builds on MFG 281 by continuing structural code practice, adding in pipe and tube welding techniques in aluminum, and creating pressure vessels in out of position weldments. Provides understanding of warp and how to account for warp in building multi-part assemblies, as well as sanitary / clean practices for welding aluminum. Prerequisite: MFG281. Audit available.		
SUMMER, 2021	N	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: WLD 195, Co-Requisite: MFG 150. Audit available.		
SUMMER, 2021	N	MFG	286	Stainless Steel GTAW/TIG Fabrication 1	3	Builds on the skills learned in MFG 285 by introducing welding to AWS code for stainless steel alloys. Introduces fabrication of stainless steel assemblies and the different procedural and prep changes for different stainless steel alloys. Presents AWS tolerances in color and purity in stainless steel welding, and experiments with a range of outcomes and how they differ both practically and chemically. Prerequisites: MFG 285. Audit available.		
SUMMER, 2021	N	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. Prerequisites: MFG 286. Audit available.		
SUMMER, 2021	N	MTH	111L	Foundations of College Algebra	1	Focuses on the foundational skills, concepts, and communication needed to be successful in MTH 111 College Algebra. Provides appropriate support in algebra, functions, problem solving, graphing, technology, and study skills in an interactive setting. Co-requisite: MTH 111.		
SUMMER, 2021	N	UAS	210	UAS Management	4	Provides an introduction to managing an enterprise (an organization with an aviation department) sUAS Operation from the Business perspective. Explores operational requirements of the sUAS, concepts of operation, data processing software, current rules and regulations, governing owning and operating a sUAS program in the United States, and concerns surrounding sUAS safety, security and privacy issues. Provides skills specifically designed for the adult professional. Prerequisites: MTH 20, RD 90, WR 90 or equivalent placement test scores. Audit available.		
SUMMER, 2021	N	WT	181	Digital Marketing Strategies	3	Examines digital marketing tools and tactics. Explores search engine optimization, analytics, and relationship marketing. Covers research techniques for staying current with industry standards. Recommended: RD 115, WR 115. Audit available.		



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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
FALL, 2021	N	AMT	191	Aviation Maintenance: General 101	6	Introduces aircraft cleaning, corrosion control, materials, and aircraft hardware. Covers the selection of appropriate cleaning chemicals and processes. Describes the identification, selection, and installation of aircraft hardware, fluid lines, and fittings. Examines the performance of aircraft processes such as heat treating and hardness testing. Prerequisites: MTH 65 or equivalent placement test scores, placement into RD 90 and WR 90 or higher. Audit available.		
FALL, 2021	N	AMT	192	Aviation Maintenance: General 102	6	Examines the government's involvement in aviation maintenance, and FAA regulations regarding aviation maintenance and approved training programs. Emphasizes the use of maintenance publications, maintenance forms and records, and technicians' privileges and limitations. Addresses aircraft weight and balance procedures and associated record keeping, aircraft drawings and ground operations and servicing. Prerequisite: AMT 191. Audit available.		
FALL, 2021	N	AMT	193	Aviation Maintenance: General 103	6	Examines the theory and application of basic DC and AC electrical concepts, definitions, and laws. Introduces passive electrical components, electrical sources, schematic symbols, and electrical wiring diagrams. Explains the methods of safe and accurate measurement of DC and AC electrical quantities using basic electrical test equipment. Provides troubleshooting defective components, observing the characteristics of electrical components in test circuits, and wiring circuits from schematic diagrams. Prerequisites: AMT 192. Audit available.		
FALL, 2021	N	AMT	194A	Aviation Maintenance: General 104A	3	Explores airframe electrical components, including the inspection, service and repair of alternating and direct current electrical systems. Examines the application of electrical principles used in sensing, indicating and control of airframe systems. Prerequisites: AMT 193. Audit available.		
FALL, 2021	N	AMT	194B	Aviation Maintenance: General 104B	3	Explores engine electrical components, including the inspection, service and repair of alternating and direct current electrical systems. Examines the application of electrical principles used in sensing, indicating and control of powerplant systems. Prerequisite/concurrent: AMT 194A. Audit available.		
FALL, 2021	N	AMT	195	Aviation Maintenance: General 105	6	Examines the use of mechanical and electronic systems in sensing, communicating, and displaying information. Explores solid state and digital devices, sensors, and special circuits used in aircraft instrumentation systems, fuel systems and fire protection systems. Analyzes the methods used in testing, inspecting, and troubleshooting those systems. Prerequisites: AMT 194 or (AMT 194A and AMT 194B). Audit available.		
FALL, 2021	N	AMT	261	Aviation Maintenance: Airframe 1	6	Details ice and rain control systems and associated warning systems. Examines the fundamentals of installation, operation and maintenance of airborne communication and navigation instruments, and auto flight systems. Introduces methods of assembly and rigging commonly used in preparing aircraft for a safe test flight. Provides welding fundamentals in relation to aircraft repair. Prerequisites: AMT 195. Audit available.		
FALL, 2021	N	AMT	262	Aviation Maintenance: Airframe 2	6	Examines the inspection and repair of aircraft landing gear and hydraulic and pneumatic system components. Introduces various airframe systems, specifically position and warning systems. Prerequisites: AMT 261. Audit available.		

## [CGCC] Curricular Changes - Effective for Academic Year [2021-22]

This list submitted to OrACRAO on: [\[June 30, 2021\]](#)

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
FALL, 2021	N	AMT	263	Aviation Maintenance: Airframe 3	6	Introduces sheet metal, its properties, and uses in fabrication of structural and nonstructural components of aerospace vehicles. Addresses inspection techniques along with fabrication and repair processes for bending, cutting, forming, drilling, and riveting aluminum sheet metal parts. Prerequisites: AMT 262. Audit available.		
FALL, 2021	N	AMT	264	Aviation Maintenance: Airframe 4	6	Examines the theory and techniques used in the fabrication, inspection, repair, and finishing of bonded structures, plastics, wood structures, fabric covering, honeycomb structures, and advanced composite structures. Details the environmental control systems (head, air conditioning, pressurization, oxygen). Prerequisites: AMT 263. Audit available.		
FALL, 2021	N	AMT	271	Aviation Maintenance: Powerplant 1	6	Introduces the theory of operation and construction of the internal combustion engine. Examines the combustion processes, design rationale, cooling and lubrication of internal combustion of reciprocating engines. Prerequisite: AMT 195. Audit available.		
FALL, 2021	N	AMT	272	Aviation Maintenance: Powerplant 2	6	Examines the disassembly, assembly, inspection and repair of aircraft turbine engines. Emphasizes the use of technical data, appropriate tools and inspection devices along with special safety procedures related to the servicing, operation and repair of turbine engines. Addresses turbine driven auxiliary power units. Prerequisites: AMT 271. Audit available.		
FALL, 2021	N	AMT	273	Aviation Maintenance: Powerplant 3	6	Covers reciprocating and turbine engine ignition system theories and overhaul practices, as well as the relationships of the complete ignition system to the powerplant and its operation. Covers proper inspection of the entire engine installation, including exhaust systems, airflow, and cooling systems. Prerequisites: AMT 272. Audit available.		
FALL, 2021	N	AMT	274	Aviation Maintenance: Powerplant 4	6	Introduces the many methods of fuel metering used to move air and fuel into and through an engine in a ratio producing safe and efficient engine operation under widely varying conditions. Examines proper inspection of the entire engine installation, including exhaust and lubrication systems, propellers and unducted fans. Prerequisites: AMT 273. Audit available.		
FALL, 2021	N	AMT	281	Aviation Maintenance: Airframe Return to Service	3	Provides diversified projects, supervised field experiences and FAA examination review for Airframe production. Prerequisite: AMT 264. Audit available.		
FALL, 2021	N	AMT	282	Aviation Maintenance: Powerplant Return to Service	3	Provides diversified projects, supervised field experiences and FAA examination review for Powerplant operations. Prerequisite: AMT 274. Audit available.		