

## First Read Curriculum Review

### Programs 11/16/23

Meeting Date	Program Title	Program Description	Program Type (B, ADT, AA, AS, CA, JSC, NC)	Request Type	Units / Hours	Start Semester
11/16/2023	Civil Engineering Technology	<p>The Civil Engineering Technology Certificate of Achievement program equips students with a skill set to support various areas of civil engineering, such as construction, water resources, public works, structural detailing and design, environmental evaluation, and energy development. In addition to engineering fundamentals, the program includes coursework in AutoCAD, surveying, financial accounting, and business law. Courses in this certificate program are aligned with lower division requirements for Bachelor of Science in Construction Management programs at the following California State University campuses: Fresno, Northridge, Long Beach, East Bay, Sacramento, Chico, and San Diego. More opportunities for transfer may be available through the Western Undergraduate Exchange. Additional general education courses will be required for transfer. Students interested in transferring should contact a counselor or educational advisor.</p> <p>To Achieve the Certificate of Achievement: Upon completion of graduation requirements and the required degree courses with at least a "C" or "P" grade in each course, the student will be awarded an Associate of Science degree.</p>	Certificate of Achievement	New	34 - 34.5	Summer 2024
11/2/2023	Occupational Safety and Risk Management Agriculture	<p>The Occupational Safety and Risk Management, Agriculture Associate in Science provides broad-based professional preparation in the field of occupational safety and risk management with an emphasis toward the agricultural industry. Safety professionals strive to protect people, property, and the environment using hazard identification and risk control techniques, working to balance safety and compliance with production and profit. The curriculum uses scientific foundations and regulatory frameworks and includes courses in occupational safety, occupational health, risk management, and environmental health. Coursework specific to agriculture and agricultural safety, paired with the core courses, provides for a cohesive area of emphasis in agriculture. Students are academically prepared to make contributions to society by anticipating, evaluating, and controlling occupational and environmental hazards and risks. Upon completion of graduation requirements and the required degree courses with at least a "C" or "P" grade in each course, the student will be awarded an Associate of Science degree.</p>	Associate in Science	Revision	60 - 64	Summer 2024
11/2/2023	Occupational Safety and Risk Management Business	<p>The Associate in Science in Occupational Safety and Risk Management, Business provides broad-based professional preparation in the field of occupational safety and risk management. Safety professionals strive to protect people, property, and the environment using hazard identification and risk control techniques, working to balance safety and compliance with production and profit. The curriculum uses scientific foundations and regulatory frameworks and includes courses in occupational safety, occupational health, risk management and environmental health. Additional courses, paired with the core courses provide for a cohesive area of emphasis in Business. Students are academically prepared to make contributions to society by anticipating, evaluating, and controlling occupational and environmental hazards and risks. Students are academically prepared to pursue careers in business, human resources, insurance, risk management, and in general industry. Upon completion of graduation requirements and the required degree courses with at least a "C" or "P" grade in each course, the student will be awarded an Associate of Science degree.</p>	Associate in Science	Revision	60 - 64.5	Summer 2024

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11/2/2023	Occupational Safety and Risk Management Health Science	The Occupational Safety and Risk Management, Health Science Associate in Science provides broad-based professional preparation in the field of occupational safety and risk management. Safety professionals strive to protect people, property, and profits using hazard identification and risk control techniques, working to balance safety and compliance with production and profit. The curriculum uses scientific foundations and regulatory frameworks and includes courses in occupational safety, occupational health, risk management, and environmental health. Public health courses, paired with the core courses, provide for a cohesive area of emphasis in Health Science. Students are academically prepared to pursue careers in health care, corporate wellness, and general industry. Upon completion of graduation requirements and the required degree courses with at least a "C" or "P" grade in each course, the student will be awarded an Associate of Science degree.	Associate in Science	Revision	60 - 64	Summer 2024
11/2/2023	Occupational Safety and Risk Management Industrial Technology	The Occupational Safety and Risk Management, Industrial Technology Associate in Science provides broad-based professional preparation in the field of occupational safety and risk management. Safety professionals strive to protect people, property, and the environment using hazard identification and risk control techniques, working to balance safety and compliance with production and profit. The curriculum uses scientific foundations and regulatory frameworks and includes courses in occupational safety, occupational health, risk management, and environmental health. The core courses, paired with technical and science courses, provides for a cohesive area of emphasis in Industrial Technology. Students are academically prepared to make contributions to society by anticipating, evaluating, and controlling occupational and environmental hazards and risks and are prepared for careers in construction, oil and gas, manufacturing, and general industry. Upon completion of graduation requirements and the required degree courses with at least a "C" or "P" grade in each course, the student will be awarded an Associate of Science degree.	Associate in Science	Revision	60 - 65	Summer 2024
5/4/2023	Project Management Essentials	Provides students with the knowledge and skills needed in project planning and management. This program provides students with the practical application skills and working knowledge of the tools necessary to plan, implement and manage projects in any business environment. This program requires completion of two classes (INDA B50NC and INDA B51NC). The program courses include instruction in the fundamentals of project management, including planning, defining a project, resources, roles and responsibilities, necessary skills, tools and processes. Project management software options such as Microsoft Project are used throughout the program. Instruction will also cover team building, problem solving, decision making, using creativity and innovation, emerging trends, and communication skills. To achieve the Certificate of Completion: Upon completion of the following courses with a grade of 'P', the student will be awarded a Certificate of Completion.	Certificate of Completion (NC)	New	0	Summer 2024

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5/4/2023	Electrician Apprenticeship	<p>Apprenticeship courses are designed for indentured apprentices under the Shelley-Maloney California Apprenticeship Standards Act. The Apprentice Agreement states that the student will supplement on-the-job training with related classroom instruction during each year of apprenticeship. Apprentice classes meet three to eight hours per week and yield two to six units of credit. Joint Apprenticeship Committees administering each program are composed of representation from labor, management, California State Division of Apprenticeship Standards, and Bakersfield College. These committees adopt state approved standards for operation and assure equal opportunity for applicants. Related training in apprenticeable occupations, in addition to those listed below, may be offered as the need arises.</p> <p>Information for entry into apprenticeship programs may be obtained from the college coordinator of apprenticeship training. Interested persons are encouraged to apply for any of these programs and may contact the Bakersfield College Apprenticeship Department at 661/395-4408 for further information.</p> <p>Associate of Science: Upon completion of graduation requirements and the required degree courses with at least a 'C' or 'P' grade in each course, the student will be awarded an Associate of Science degree.</p>	Associate of Arts (A.A.) degree	Revision	45-70	Summer 2023
5/4/2023	Human Services	<p>The Human Service Job Skills Certificate emphasizes academic preparation in disciplines relating to human services as well as hands-on experience through interning with community agencies. This certificate enhances students' preparation and facilitates employment opportunities in careers relating to servicing human needs.</p> <p>To Achieve the Job Skills Certificate Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Human Services Job Skills Certificate.</p>	Job Skills Certificate	Revision	13.5-14	Summer 2024
5/4/2023	Manufacturing Technology	<p>This program teaches students the spectrum of tools utilized in the manufacturing industry: manual machining, computer-controlled machining (CNC), welding, computer-aided design, and basic math.</p> <p>To Achieve the Certificate of Achievement Upon completion of the required courses with at least a 'C' or 'P' grade in each course, the student will be awarded a Certificate of Achievement.</p>	Certificate of Achievement	Revision	31-33	Fall 2023

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5/4/2023	Manufacturing Technology	<p>This program teaches students the spectrum of tools utilized in the manufacturing industry: manual machining, computer-controlled machining (CNC), welding, computer-aided design, and mathematics.</p> <p>Career Opportunities: Machinist, CNC Operator, CNC Programmer, and Drafter/Designer</p> <p>To Achieve the Associate of Science Upon completion of graduation requirements and the required degree courses with at least a 'C' or 'P' grade in each course, the student will be awarded an Associate of Science degree.</p>	Associate in Science	Revision	60-69	Summer 2024
5/4/2023	Sheet Metal	<p>Apprenticeship courses are designed for indentured apprentices under the Shelley-Maloney California Apprenticeship Standards Act. The Apprentice Agreement states that the student will supplement on-the-job training with related classroom instruction during each year of apprenticeship. Apprentice classes meet three to eight hours per week and yield two to six units of credit. Joint Apprenticeship Committees administering each program are composed of representation from labor, management, California State Division of Apprenticeship Standards, and Bakersfield College. These committees adopt state-approved standards for operation and assure equal opportunity for applicants. Related training in apprentice-able occupations, in addition to those listed below, may be offered as the need arises.</p> <p>Information for entry into apprenticeship programs may be obtained from the college coordinator of apprenticeship training. Interested persons are encouraged to apply for any of these programs and may contact the Bakersfield College Apprenticeship Department at 661/395-4408 for further information.</p> <p>To Achieve the Associate of Science Degree Upon completion of graduation requirements and the required degree courses with at least a 'C' or 'P' grade in each course, the student will be awarded an Associate of Science degree.</p>	Associate of Arts (A.A.) degree	Revision	60 - 68	Summer 2023
5/4/2023	Web Design and Development	<p>This Certificate of Achievement teaches the skills and knowledge needed to be successful in the field of web development. Provides a foundation in usability, accessibility, and design principles, as well as, technical skills at hand-coding HTML, CSS, JavaScript, PHP and MySQL. Includes use of authoring tools for design, editing and publishing of web pages, documents and audiovisuals on the Internet.</p> <p>To Achieve the Certificate of Achievement: Upon completion of the required courses with at least a 'C' or 'P' grade in each course, the student will be awarded a Certificate of Achievement.</p>	Certificate of Achievement	Revision	18	Fall 2023

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5/4/2023	Welding	<p>The Associate in Science in Welding is designed to prepare students for optimal success in higher education and technical careers in an environment that will encourage a lifelong pursuit of learning. Upon completion of the associate's degree program, graduates will be eligible for entry-level employment in welding, fabrication, and manufacturing environments.</p> <p>To Achieve the Associate of Science Degree:                      Upon completion of graduation requirements and the required degree courses with at least a 'C' grade in each course, the student will be awarded an Associate of Science Degree in welding.</p>	Associate of Science	Revision	65-77	Summer 2024
4/27/2023	Automotive Heating and Air Conditioning	<p>The Automotive Heating and Air Conditioning Certificate signifies that the student has developed skills to diagnose and repair several types of heating and air conditioning systems found in automotive, agriculture, and industrial applications. Students can implement the skills in daily employment throughout the associated industries, such as automotive and heavy-duty dealerships, independent repair shops, performance shops, construction companies, agriculture companies, government agencies, etc.</p> <p>Students earning this certificate will be prepared to further pursue certification through ASE in the A7, T7, H7, and S7. Students will have earned MACS Section 609 certification under Section 609 of the Environmental Protection Agency (EPA) Clean Air Act.</p> <p>Career Opportunities:                      Automotive Technician, Automotive HVAC Technician.</p> <p>Upon completion of the required courses with at least a 'C' or 'P' grade in each course, the student will be awarded a Certificate of Achievement.</p>	Certificate of Achievement	Revision	12	Summer 2024