

## First Read Curriculum Review

### Programs 10/10/24

Meeting Date	Program Title	Program Description	Program Type (B, ADT, AA, AS, CA, JSC, NC)	Request Type	Units / Hours	Start Semester
10/10/2024	Applied Engineering	<p>This program prepares students for transfer into the BS in Engineering program at CSU Bakersfield, a broad-based general engineering degree program. Students may also meet transfer requirements for other applied engineering programs, such as the Marine Engineering Technology and Facilities Engineering Technology programs at the California Maritime Academy. As such, it provides the graduate flexibility, breadth of technical knowledge, and communication skills important in today's rapidly changing multidisciplinary work environment. In addition to courses in calculus, chemistry, and physics, students also study materials science, engineering mechanics (statics, dynamics, and strength of materials), and engineering graphics with Solidworks.</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 of Science	Deletion	63 - 78	Summer 2025
10/10/2024	Electrical Engineering Associate of Science	<p>The Associate of Science in Electrical Engineering (ASEE) program prepares students for transfer to university programs in electrical engineering and related majors. The ASEE includes coursework in physics, calculus, chemistry, C++ programming, electric circuits, and digital logic. Students are advised that many engineering courses have science and math prerequisites. The ASEE degree is a high-unit major and it is recommended that the students contact a STEM counselor or advisor for guidance regarding appropriate sequencing to complete their degree requirements. Additional coursework may be required for transfer to specific universities.</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> <p>Upon completion of the required courses with a grade of "P" for passing, the student will be awarded a Certificate of Completion.</p>	Associate of Science	Deletion	62 - 74	Summer 2025
10/10/2024	Mechanical/Aerospace Engineering	<p>The Associate of Science in Mechanical/Aerospace Engineering (ASMAE) program prepares students for transfer to university programs in mechanical engineering, aerospace engineering, and related majors. The ASMAE includes coursework in physics, calculus, chemistry, materials science, electric circuits, engineering graphics, and statics. Students are advised that many engineering courses have science and math prerequisites. The ASMAE degree is a high-unit major and it is recommended that the students contact a STEM counselor or advisor for guidance regarding appropriate sequencing to complete their degree requirements. Additional coursework may be required for transfer to specific universities.</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 of Science	Deletion	67 - 79	Summer 2025

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10/10/2024	Graphic Design Level II	<p>The program is designed to prepare students for work in the communication arts and graphic design fields. The core learned disciplines are the principles and elements of design, exposure to art and design history, and conceptual visual problem solving. Students are given a balanced blend of creative, design, and technology skills necessary to develop successful print, digital and multi-media graphic design. The program offers the essential skills required for entry-level employment opportunities as a production, layout, content, publication, print, advertising or social media graphic designer. The ability to problem-solve with visual solutions is developed. A portfolio of work is prepared using industry-standard software and processes, plus self-branding and job research necessary for employment opportunities in the field of Graphic Design.</p> <p>Upon completion of the required courses with at least a "C" or "P" (pass) grade in each course, the student will be awarded a Certificate of Achievement.</p>	Certificate of Achievement	New	28 - 28	Summer 2025
10/10/2024	Plant Science	<p>This program provides instruction in the planting, growing, harvesting, and marketing of field, forage, and vegetable crops as well as irrigated and range pasture crops. Career opportunities in Plant Science include farm management, agricultural pest control, agriculture chemical and seed sales and application, soil laboratory technician, irrigation equipment supply and sales, and agricultural research technician.</p> <p>Upon completion of graduation requirements and the required degree courses with at least a "C" or "P" (pass) grade in each course, the student will be awarded an Associate of Science degree.</p>	Associate in Science	New	60	Summer 2025
10/10/2024	Philosophy	<p>The Associate in Arts in Philosophy for Transfer degree is designed to provide students a clear transfer pathway to the UC/CSU philosophy major and completion of the philosophy baccalaureate degree, to grant guaranteed admission to a CSU to a similar major, with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units. Philosophy has always been and continues to be one of the strongest traditional liberal arts majors in higher education. Some students major in Philosophy as a precursor to graduate work and academic careers, teaching and conducting research in Philosophy and Education. The emphasis on critical thinking, theories of knowledge, value and reality, truth, rational argument and proof make Philosophy an excellent pre-professional undergraduate major (e.g., for law, theology, medicine, business, computer science) or minor (e.g., for the natural, physical and social science and humanities majors).</p> <p>Upon completion of the following requirements, the student will be awarded an Associate Degree for Transfer:</p> <ol style="list-style-type: none"> <li>(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following: <ol style="list-style-type: none"> <li>a. California General Education Transfer Curriculum (CalGETC).</li> <li>b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.</li> </ol> </li> <li>(2) Obtainment of a minimum grade point average of 2.0.</li> <li>(3) The completion of all courses required for the major with a "C" or better. A "P" (Pass) grade is acceptable for courses in the major.</li> </ol>	Associate in Arts for Transfer	Revision	60	Summer 2025

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Meeting Date	Program Title	Program Description	Program Type (B, ADT, AA, AS, CA, JSC, NC)	Request Type	Units / Hours	Start Semester
10/10/2024	Sociology	The Associate in Arts in Sociology for Transfer (AA-T) is intended for all students who plan to complete an Associate in Arts in Sociology. This degree is especially valuable for those students planning on completing a bachelor's degree in Sociology at a California State University (CSU) campus because the Associate in Arts in Sociology for Transfer guarantees admission to the CSU system (but not to a particular campus or major). Students transferring to a CSU campus that does accept the Associate in Arts in Sociology for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.	Associate in Arts for Transfer	Revision	60	Summer 2025
9/26/2024	Industrial Drawing	Students who complete the Industrial Technology degree with the Industrial Drawing option will acquire information, skills, and training in a variety of fields that will enable them to apply their knowledge in an array of situations, including engineering and manufacturing settings. Students will acquire the practical knowledge and skills to successfully enter industry employment or to advance within their organization. Career opportunities include architecture, engineering, industrial technology draftsman, CAD Technician, engineering technician, CAD Manager, and detailer. To Transfer Coursework, a minimum of 31 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.  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 of Science	Revision	60-63	Summer 2025
9/26/2024	Industrial Technology	This degree covers the principles of industrial technology to prepare individuals for technical, management, and educational careers in a variety of industries including engineering, business, industry, and government. Students will take classes in the following programs: architecture, construction, drafting and CAD, manufacturing, occupational safety, welding, and woodworking. To Transfer Coursework: A minimum of 22 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework." 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 of Science	Revision	64-67	Summer 2025

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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	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
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

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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	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