

Barstow Community College 2021-2022 CATALOG Addendum

This addendum to the 2021-2022 Barstow Community College Catalog reflects updates and offers new educational opportunities for students. These updates/revisions were approved after the 2021-2022 Catalog was finalized. Although every effort has been made to ensure accuracy of information, all students should consult with a counselor for further information.

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BARSTOW COMMUNITY COLLEGE GENERAL EDUCATION BREADTH 2021 - 2022

Completion of the general education requirements satisfy the local degree requirements and is designed for students who are planning to seek immediate employment after graduation. Students intending to transfer to a 4-year institution should follow either the CSUGE-Breadth requirements or the IGETC requirements.

Courses in Areas I, II, and III must be completed with grades "C" or better.

While a course might satisfy more than one general education requirement, it may not be used more than once within the general breadth. However, a course may be used to satisfy both a general education requirement and a major requirement.

See a counselor for more details regarding double counting courses.

I. Written Communication Competency (Minimum 4 units)	
(1 course minimum required) English 1A	
II. Oral Communication Competency (Minimum 3 units)	
(1 course minimum required) Communications 1, 3	
III. Mathematics Competency (Minimum 3 units)	
(1 course minimum required) Mathematics 1-99 *MATH 50 does not satisfy this requirement	
IV. Humanities Competency (Minimum 3 units)	
(1 course minimum required)	
Arts 1-99	Philosophy 1-99
English 1B-99	Photography 1-99
Humanities 1-99	Spanish 1A-99
Music 1-99	Theatre Arts 1-99
*ENGL 50 does not satisfy this requirement	
V. Social and Behavioral Science Competency (Minimum 3 units)	
(1 course minimum required)	
Administration of Justice 1-99	Geography 1
Anthropology 1	History 1A-99
Business Administration 1-99	Political Science 1-99
Child Development 1-99	Psychology 1-99
Economics 1-99	Sociology 1-99
Ethnic Studies 1	
VI. Natural Sciences Competency (Minimum 3 units)	
(1 course minimum required)	
Astronomy 1, 1L	Oceanography 1
Biology 1-99	Physical Science 2
Chemistry 1-99	Psychology 11
Geology 1-99	
VII. Lifelong Understanding and Self-Development (Minimum 2 units)	
(1 course minimum required)	
Allied Health 51, 63, 64 OR A valid/current American Heart Association or American Health and Safety Institute CPR and ARC or AHS First Aid Care	
Child Development 4	
Health 1-99	
Music 1-99	
Student Development 1-99	
Kinesiology 1-99	

Astronomy

ASTR 1L

1 Unit

Observational Astronomy

Course Hours: 54 hours laboratory

This is a laboratory course which examines the major principles of astronomy, and utilizes observations through the telescope to explore the planets and moons of the solar system, stars, nebulas and galaxies. Passing both ASTR 1 and ASTR 1L satisfies a physical science lab requirement.

Corequisite: ASTR 1.

Grading: Audit, Normal, Pass/No Pass

Repeatability: Course not repeatable

Credit: Degree Applicable

C-ID: None

CSU: CSU GE Area B3

IGETC: IGETC Area 5C-Science Lab

Modality: Web Conferencing (F2F/Synch), Traditional (Fully In-Person), Online - Asynchronous, Interactive Video/Audio

Computer and Business Information Systems

CBIS 13

3 Unit

Management of Information Systems

Course Hours: 36 hours lecture; 54 hours laboratory

Introduction to management information systems concepts.

The course will present a variety of data processing facilities.

Course topics include: The computer as an organizational information system, systems methodologies, and the computer as a problem-solving tool, the computer-based information system, and organizational information systems.

Recommended Preparation: CSIS 1.

Grading: Audit, Normal, Pass/No Pass

Repeatability: Course not repeatable

Credit: Degree Applicable

C-ID: ITIS 120

CSU: Transferable as elective credit only

IGETC: May transfer as elective credit after institutional evaluation

Modality: Web Conferencing (F2F/Synch), Traditional (Fully In-Person), Online - Asynchronous, Interactive Video/Audio

Economics

ECON 1

3 Unit

Macroeconomics

Course Hours: 54 hours lecture

An introductory course focusing on aggregate economic analysis. Topics include: market systems, aggregate measures of economic activity, macroeconomic equilibrium, money and financial institutions, monetary and fiscal policy, international economics, and economic growth. Prerequisite: MATH 50 or MATH 55. Recommended Preparation: MATH 55.

Grading: Audit, Normal, Pass/No Pass

Repeatability: Course not repeatable

Credit: Degree Applicable

C-ID: ECON 202

CSU: CSU GE Area D

IGETC: IGETC Area 4

Modality: Web Conferencing (F2F/Synch), Traditional (Fully In-Person), Online - Asynchronous, Interactive Video/Audio

Ethnic Studies

ETHN 1

3 Unit

Introduction to Ethnic Studies

Course Hours: 54 hours lecture

This course provides a multidisciplinary introduction to and analysis of ethnic groups in the United States. Students will apply various theories and perspectives so as to develop a comprehension of the effects of institutional racism, economic and environmental marginalization, and socioeconomic and political discrimination on American ethnic and racial groups. Emphasis on Native, African, Latinx, and Asian American cultural experiences.

Grading: Audit, Normal, Pass/No Pass

Repeatability: Course not repeatable

Credit: Degree Applicable

C-ID: None

CSU: CSU GE Area D, CSU GE Area F

IGETC: IGETC Area 4

Modality: Web Conferencing (F2F/Synch), Traditional (Fully In-Person), Online - Asynchronous, Interactive Video/Audio

Geology

GEOL 1L

4 Unit

Physical Geology

Course Hours: 54 hours lecture; 54 hours laboratory

This course is an introduction to the science of the earth with emphasis on: minerals and rocks, plate tectonics, volcanic activity, earthquakes, geologic processes which shape the earth's surface, and structure of the earth. The lab includes the identification of common rocks and minerals and the interpretation of geologic features from maps, aerial photos, and field observations. A one-day (8-10 hours) field trip is required.

Grading: Audit, Normal, Pass/No Pass

Repeatability: Course not repeatable

Credit: Degree Applicable

C-ID: GEOL 101

CSU: CSU GE Area B1, CSU GE Area B3

IGETC: IGETC Area 5A-Phys Sci, IGETC Area 5C-Science Lab

Modality: Web Conferencing (F2F/Synch), Traditional (Fully In-Person), Online - Asynchronous, Interactive Video/Audio

Kinesiology

KINA 150

0 Unit

Fitness and Wellness Lab

Course Hours: 54-108 hours laboratory

This course is a physical fitness course that is designed for cardiorespiratory, strength and flexibility exercises within a prescribed fitness program. This course is available to students/faculty/staff of Barstow Community College.

Grading: Audit, Non Credit

Repeatability: Unlimited

Credit: Noncredit

C-ID: None

CSU: Non-transferable

IGETC: Non-transferable

Modality: Web Conferencing (F2F/Synch), Traditional (Fully In-Person), Online - Asynchronous, Interactive Video/Audio

Mathematics

MATH 2

4 Unit

Introduction to Statistics

Course Hours: 54 hours lecture; 54 hours laboratory

This course is an introduction of basic statistical concepts and techniques, which includes descriptive and inferential statistics, construction of statistical tables, display data with statistical graphs, t-tests and chi-squares. Topics will include correlation and regression, probability, statistical distributions, central limit theory, testing hypotheses & confidence interval of a single population for a population mean, population proportion, and standard deviation.

Students will also learn about inference about two population proportions and means, tests for independence and the homogeneity of proportions, and ANOVA. Applications using data from a broad range of disciplines. Prerequisite: MATH 55 (or appropriate placement based on AB705 mandate).

Grading: Audit, Normal, Pass/No Pass

Repeatability: Course not repeatable

Credit: Degree Applicable

C-ID: MATH 110

CSU: CSU GE Area B4

IGETC: IGETC Area 2

Modality: Web Conferencing (F2F/Synch), Traditional (Fully In-Person), Online - Asynchronous, Interactive Video/Audio

MATH 3

4 Unit

College Algebra

Course Hours: 72 hours lecture

The topics to be covered include review of the fundamentals of algebra, relations, functions, solutions of first and second degree equations and inequalities, systems of linear equations, matrices, permutations, combinations, binomial theorem, mathematical induction, polynomial and rational functions, exponential and logarithmic functions, analytic geometry and conic sections, geometric and arithmetic sequences, series, and probability. Prerequisite: Completion of MATH 55 or appropriate placement based on AB705 mandates.

Grading: Audit, Normal, Pass/No Pass

Repeatability: Course not repeatable

Credit: Degree Applicable

C-ID: MATH 151

CSU: CSU GE Area B4

IGETC: IGETC Area 2

Modality: Web Conferencing (F2F/Synch), Traditional (Fully In-Person), Online - Asynchronous, Interactive Video/Audio

MATH 4B

4 Unit

Calculus II**Course Hours:** 72 hours lecture

This is the second course of calculus in differential and integral of a single variable. Topics covered include integration and its techniques of integration. Series and sequences including both finite and infinite sequences and series are covered. Topics also include both polar and parametric equations, and applications of integration. This course is primarily for Science, Technology, Engineering, and Math Majors. Prerequisite: MATH 4A.

Grading: Audit, Normal, Pass/No Pass**Repeatability:** Course not repeatable**Credit:** Degree Applicable**C-ID:** MATH 220**CSU:** CSU GE Area B4**IGETC:** IGETC Area 2**Modality:** Web Conferencing (F2F/Synch), Traditional (Fully In-Person), Online - Asynchronous, Interactive Video/Audio**MATH 4D**

4 Unit

Business Calculus**Course Hours:** 72 hours lecture

This course offers an introduction to the calculus of single variables with an emphasis in Business and Management. Topics covered include limits and intuitive limit definition of derivative, finding derivatives and integrals of functions, basic properties of derivatives and integrals. Applications of differentiation such as marginal analysis, optimization, and curve sketching and integration in business and economics. Prerequisite: MATH 55. Recommended Preparation: MATH 1 and MATH 3.

Grading: Audit, Normal, Pass/No Pass**Repeatability:** Course not repeatable**Credit:** Degree Applicable**C-ID:** MATH 140**CSU:** Non-transferable**IGETC:** May transfer as elective credit after institutional evaluation**Modality:** Web Conferencing (F2F/Synch), Traditional (Fully In-Person), Online - Asynchronous, Interactive Video/Audio**MATH 6**

3 Unit

Mathematical Concepts for Elementary Teachers**Course Hours:** 54 hours lecture

This course covers the real number system, numeration system, elementary number theory, geometry, and problem solving. Technology and hands-on experiences are integrated in this course. It is designed to fulfill the lower division mathematics requirement for students who are planning to enter a multiple subject teaching credential programs. Prerequisite: MATH 55 or appropriate placement based on AB 705 mandates.

Grading: Audit, Normal, Pass/No Pass**Repeatability:** Course not repeatable**Credit:** Degree Applicable**C-ID:** MATH 120**CSU:** CSU GE Area B4**IGETC:** May transfer as elective credit after institutional evaluation**Modality:** Web Conferencing (F2F/Synch), Traditional (Fully In-Person), Online - Asynchronous, Interactive Video/Audio**MATH 9**

3 Unit

Ordinary Differential Equation**Course Hours:** 54 hours lecture

This course is an introduction to ordinary differential equations. Topics include first order equations, linear equations, reduction of order, a variation of parameters, spring motion and other applications, Cauchy-Euler equations, power series solutions, Laplace transforms, and systems of linear differential equations. Recommended Preparation: Three semesters of calculus for science, math, and engineering. Prerequisite: MATH 4B.

Grading: Audit, Normal, Pass/No Pass**Repeatability:** Course not repeatable**Credit:** Degree Applicable**C-ID:** MATH 240**CSU:** CSU GE Area B4**IGETC:** IGETC Area 2**Modality:** Web Conferencing (F2F/Synch), Traditional (Fully In-Person), Online - Asynchronous, Interactive Video/Audio

Philosophy

PHIL 7

3 Unit

Ancient and Medieval Philosophy**Course Hours:** 54 hours lecture

This course offers a chronological examination of Western philosophical thought developed between 600 B.C.E. and 1300 C.E., including the principle ancient and medieval philosophies of this time period. Topics include Greek and Roman thought, and the rise and development of Christianity. Recommended Preparation: ENGL 1A.

Grading: Audit, Normal, Pass/No Pass**Repeatability:** Course not repeatable**Credit:** Degree Applicable**C-ID:** PHIL 130**CSU:** CSU GE Area C2**IGETC:** IGETC Area 3B**Modality:** Web Conferencing (F2F/Synch), Traditional (Fully In-Person), Online - Asynchronous, Interactive Video/Audio

Physics

PHYS 2B

4 Unit

General Physics II: Electricity and Magnetism

Course Hours: 54 hours lecture; 54 hours laboratory

This course is the second course of a calculus-based sequence for majors in biology, chemistry, computer science, kinesiology, mathematics, engineering, astronomy and certain other fields. This course covers electrostatics, Coulomb's Law, Gauss' Law, capacitors and dielectrics, DC circuits, Ohm's Law, magnetism, and electromagnetism, Ampere's Law, Faraday's Law, alternating current theory, electrical oscillators, electromagnetic radiation and electromagnetic waves. Physics 2B is an advanced lower division course, designed for science majors who have the ability to think and work problems at the calculus and elementary differential equations level. Prerequisites: PHYS 2A and MATH 4A. Corequisite: MATH 4B. Recommended Prep: Enrollment in MATH 4C.

Grading: Audit, Normal, Pass/No Pass

Repeatability: Course not repeatable

Credit: Degree Applicable

C-ID: PHYS 210

CSU: CSU GE Area B1, CSU GE Area B3

IGETC: IGETC Area 5A-Phys Sci, IGETC Area 5C-Science Lab

Modality: Web Conferencing (F2F/Synch), Traditional (Fully In-Person), Online - Asynchronous, Interactive Video/Audio

Sociology

SOCI 3

3 Unit

Sociology of Modern Family Life (formerly also offered as PSYC 33)

Course Hours: 54 hours lecture

Sociological analysis of the family as an institution. An exploration of human relationships in anticipation of, preparation for, and participation in marriage and family life. An examination of social change as it affects the institution of the family. Analysis of social aspects which make for success or failure in relationships.

Grading: Audit, Normal, Pass/No Pass

Repeatability: Course not repeatable

Credit: Degree Applicable

C-ID: SOCI 130

CSU: CSU GE Area D

IGETC: IGETC Area 4

Modality: Web Conferencing (F2F/Synch), Traditional (Fully In-Person), Online - Asynchronous, Interactive Video/Audio