



Schedule of Classes for Spring 2021

Subj/Crse	CRN KEY	Days	Begin & End Time	Campus	Room	Units	Instructor	Dates	Zero Cost Textbook	Last Official Day to Add	Last Day to Drop With Refund
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ACCOUNTING

Financial Accounting

This course is the study of accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. The course covers the accounting information system, including recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the financial statements, and statement analysis. This course includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, and ethics. Recommended Preparation: ENGL 1A and MATH 3.

Instructional Method: Online

ACCT 1	40385			Online	ONLINE	3	Peak, T.	1/11 - 3/12		January 21	January 14
ACCT 1	40386			Online	ONLINE	3	Vasconcellos, R.	3/22 - 5/21		April 1	March 26

Managerial Accounting

This course defines the uses of accounting data in management planning control, and decision-making with emphasis on the differences between financial accounting and managerial accounting. It identifies the nature, usage, and limitations of managerial accounting reports as management information and decision tools by emphasizing the non-structured, critical thinking aspects. Prerequisite: ACCT 1.

Instructional Method: Online

ACCT 4	40001			Online	ONLINE	3	Peak, T.	1/11 - 3/12		January 21	January 14
ACCT 4	40387			Online	ONLINE	3	Peak, T.	3/22 - 5/21		April 1	March 26

Personal Financial Planning

Instructional Method: Online

ACCT 5	40505			Online	ONLINE	3	Vasconcellos, R.	3/22 - 5/21		April 1	March 26
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ADMINISTRATION OF JUSTICE

Introduction to the Administration of Justice

This course introduces students to the characteristics of the United States criminal justice system. Focus is placed on examining crime data, theories of crime, responses to crime, components of the system, and current challenges to the system. The course examines the evolution of the principles and approaches utilized by the justice system and the evolving forces which have shaped those principals and approaches. Although justice structure and process is examined in a cross cultural context, emphasis is placed on the US justice system, particularly the structure and function of US police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, sentencing, and incarceration policies. Recommended Preparation: ENGL 50X.

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<i>Instructional Method:</i> Online											
ADJU 1	40257			Online	ONLINE	3	Beshears, M.	1/11 - 3/12		January 21	January 14
Legal Aspects of Corrections											
This course provides students with the historical framework, concepts and precedents that guide correctional practice. Corrections environment, civil rights of prisoners and responsibilities of corrections staff will be covered. Recommended Preparation: ENGL 50X.											
<i>Instructional Method:</i> Online											
ADJU 15	40164			Online	ONLINE	3	Beshears, M.	3/22 - 5/21		April 1	March 26
Control and Supervision in Corrections											
This course explores the methods, practices, and theory related to the custodial supervision of incarcerated persons in Federal, State, and local correctional facilities. Issues of custodial control from day-to-day institutional living through crisis situations will be discussed. Interaction between the offender and the correctional employee will be examined. Recommended Preparation: ENGL 50X.											
<i>Instructional Method:</i> Online											
ADJU 16	40507			Online	ONLINE	3	Lozano, F.	3/22 - 5/21		April 1	March 26
Fundamentals of Probation and Parole (formerly also offered as SOCI 18)											
This course is an overview of the history and philosophical foundations of probation and parole. Organization and operations of probation will be explored. Issues and problems relating to the pre-sentence report, determinate versus indeterminate sentencing, role of the probation and parole officer, legal decisions affecting probation and parole practice will be examined. Recommended Preparation: ENGL 50X.											
<i>Instructional Method:</i> Online											
ADJU 18	40303			Online	ONLINE	3	Beshears, M.	3/22 - 5/21		April 1	March 26
Principles and Procedures of the Justice System											
This course provides an in-depth study of due process in criminal proceedings from pre-arrest through final disposition utilizing statutory law and state and constitutional law precedents. This course also covers the roles and responsibilities of law enforcement, the courts, and corrections in the criminal justice system. Recommended Preparation: ENGL 50X.											
<i>Instructional Method:</i> Online											
ADJU 2	40262			Online	ONLINE	3	Beshears, M.	1/11 - 3/12		January 21	January 14

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ADMINISTRATION OF JUSTICE

Concepts of Criminal Law

This course offers an analysis of the doctrines of criminal liability in the United States and the classification of crimes against persons, property, morals, and public welfare. Special emphasis is placed on the classification of crime, the general elements of crime, the definitions of common and statutory law, and the nature of acceptable evidence. This course utilizes case law and case studies to introduce students to criminal law. The completion of this course offers a foundation upon which upper-division criminal justice course will build. The course will also include some limited discussion of prosecution and defense decision making, criminal culpability, and defenses to crimes. Recommended Preparation: ENGL 50X.

Instructional Method: **Online**

ADJU 3	40263		Online	ONLINE	3	Beshears, M.	1/11 - 3/12		January 21	January 14
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Legal Aspects of Evidence

This course examines categories of evidence as well as the rules governing the admission and exclusion of evidence in the criminal process. Topics that will be addressed include rules of admissibility, types of evidence, witnesses, privileged communications, hearsay, the collection and preservation of evidence, and the exclusion of evidence on constitutional grounds. Recommended Preparation: ENGL 50X.

Instructional Method: **Online**

ADJU 4	40506		Online	ONLINE	3	Beshears, M.	1/11 - 3/12		January 21	January 14
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Community Relations of the Justice System

This course examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics may include the shared and conflicting values in culture, religion, and law. Crime prevention, conflict resolution, and ethics may also be discussed. Recommended Preparation: ENGL 50X.

Instructional Method: **Online**

ADJU 5	40480		Online	ONLINE	3	Lozano, F.	3/22 - 5/21		April 1	March 26
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ALLIED HEALTH

First Aid and Personal Safety

This course teaches techniques of emergency treatment to be used by laypersons when professional medical assistance is not immediately available. The course will be taught using current standards for first aid, external defibrillation, and resuscitation. Students will earn or recertify American Cross Adult CPR and Standard First Aid Course Completion cards. The course may be repeated as needed for recertification.

Instructional Method: **Online**

AHLT 51	40590		Online	ONLINE	0.5	Mendoza, M.	1/11 - 2/19		February 16	January 13
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Please be aware students will be required to attend an on-campus two hour skills assessment after the online component is complete. Instructional material fees of \$35.00 required - <http://barstow.edu/Fees-Refunds.html>

AHLT 51	40592		Online	ONLINE	0.5	Mendoza, M.	3/22 - 4/30		April 26	March 24
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ALLIED HEALTH

Emergency Medical Technician - Basic

The field of pre-hospital care is an extension of the medical profession. The Emergency Medical Technician is the entry level for emergency response personnel. Successful completion of this course also includes field work experiencing actual emergency situations and will qualify the student for National Registry of EMT's Testing/Certification which is required by the State of California and the Inland Counties Emergency Medical Agency (ICEMA) to obtain employment as an Emergency Medical Technician-Basic. Prerequisite: Healthcare Provider or Equivalent CPR Card

Instructional Method: **Hybrid Interactive Video/Audio**

AHLT 55A	40398		Online	ONLINE TBA	9	Rodriguez, A.	1/11 - 5/21		February 7	January 22
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Please be aware students will be required to attend an on campus lab assessment. Days and times will be determined when the section begins.

Emergency Medical Technician Basic Refresher - EMSA Certificaion

Prerequisite: Current EMT Certification and CPR card level C. Required for renewal of Emergency Medical Technician I certificate. Approved by the Department of Public Health, Bureau of Medical Services, and Inland Counties Emergency Medical Authority. 32 hours total. May be repeated as needed (once every 2 years) for recertification through EMS Agency.

Instructional Method: **Hybrid Interactive Video/Audio**

AHLT 62A	40399		Online	ONLINE TBD	2	Rodriguez, A.	3/29 - 5/21		April 7	April 1
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Please be aware students will be required to attend an on campus lab assessment. Days and times will be determined when the section begins.

Basic CPR

This course teaches a combination of prudent heart living and emergency first aid procedures. Students will learn how to recognize respiratory and cardiac arrest and start the proper application of cardiopulmonary resuscitation until life support is available. Course will be taught using current resuscitation standards. Upon successful completion of the course the student will receive a Health Care Provider CPR Card from the American Red Cross, which is valid for a one year period.

Instructional Method: **Online**

AHLT 63	40591		Online	ONLINE	0.5	Mendoza, M.	3/22 - 4/30		April 26	March 24
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Please be aware students will be required to attend an on-campus two hour skills assessment after the online component is complete. Instructional material fees of \$24.00 required - <http://barstow.edu/Fees-Refunds.html>

AHLT 63	40593		Online	ONLINE	0.5	Mendoza, M.	1/11 - 2/19		February 16	January 13
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Please be aware students will be required to attend an on-campus two hour skills assessment after the online component is complete. Instructional material fees of \$24.00 required - <http://barstow.edu/Fees-Refunds.html>

ANTHROPOLOGY

Introduction to Cultural Anthropology

This course explores how anthropologists study and compare human culture. Cultural anthropologists seek to understand the broad arc of human experience focusing on a set of central issues: how people around the world make their living (subsistence patterns); how they organize themselves socially, politically and economically; how they communicate; how they relate to each other through family and kinship ties; what they believe about the world (belief systems); how they express themselves creatively (expressive culture); how they make distinctions among themselves such as through applying gender, racial and ethnic identity labels; how they have shaped and been shaped by social inequalities such as colonialism; and how they navigate culture change and processes of globalization that affect us all. Ethnographic case studies highlight these similarities and differences, and introduce students to how anthropologists do their work, employ professional anthropological research ethics and apply their perspectives and skills to understand humans around the globe. Recommended Preparation: Eligibility for ENGL 1A.

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Instructional Method: **Online**

ANTH 1	40562		Online	ONLINE	3	Coffey, M.	3/22 - 5/21		April 1	March 26
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ART

Art History and Appreciation: Prehistory through the Middle Ages

This course provides an overview of western art and architecture from prehistory through the medieval period. The course content includes primitive features of art and the aesthetic experience; understanding of the resources for and the value of the arts and the significance of taste and style; the history of painting, sculpture and architecture from the earliest times to Gothic Art. A field trip may be required. Recommended Preparation: HIST 8A.

Instructional Method: **Online**

ARTS 1	40015		Online	ONLINE	3	Brooks, B.	1/11 - 3/12		January 21	January 14
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ARTS 1	40037		Online	ONLINE	3	Goldstein, L.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
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ARTS 1	40071		Online	ONLINE	3	Colston, V.	3/22 - 5/21		April 1	March 26
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ARTS 1	40167		Online	ONLINE	3	Goldstein, L.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
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Beginning Painting (formerly ARTS 10)

Introduction to principles, elements, and practices of painting. Focus on exploration of painting materials, perceptual skills and color theory, paint mixing and technique, as well as creative responses to materials and subject matter.

Instructional Method: **Online**

ARTS 10A	40368		Online	ONLINE ONLINE	3	Goldstein, L.	1/11 - 5/21		February 7	January 22
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ART

Asian Art History: Early Cultures

This course offers an overview of art and architecture as an integral part of Asian culture: India and Southeast Asia, China, Korea, and Japan from prehistory to modern times. The course focuses on the identification and analysis of artistic styles and the connection of art to the lives and beliefs of contemporary people. A field trip may be required. Recommended Preparation: HIST8A and HIST8B.

Instructional Method: **Online**

ARTS 13A	40468		Online	ONLINE	3	Colston, V.	3/22 - 5/21		April 1	March 26
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Freehand Sketching

An introduction to the sketching process, emphasizing skill development in various media. Course includes analyzing visual fields and developing hand-to-eye coordination.

Instructional Method: **Online**

ARTS 16	40554		Online	ONLINE ONLINE	3	Allebes, B.	1/11 - 5/21		February 7	January 22
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Art History and Appreciation: Early Renaissance to Post Modern

This course provides an overview of art and architecture from the Renaissance to the Contemporary period. Recommended Preparation: ENGL 1A.

Instructional Method: **Online**

ARTS 2	40017		Online	ONLINE	3	Goldstein, L.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
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ARTS 2	40168		Online	ONLINE	3	Goldstein, L.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
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Drawing and Composition

Introduction to principles, elements, and practices of drawing, employing a wide range of subject matter and drawing media. Focus on perceptually based drawing, observational skills, technical abilities, and creative responses to materials and subject matter.

Instructional Method: **Online**

ARTS 7	40182		Online	ONLINE ONLINE	3	Romano, M.	1/11 - 5/21		February 7	January 22
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ASTRONOMY

Introduction to Astronomy

This class covers principles of astronomy, including motions of the earth, time measurement, the solar system, stellar and galactic phenomena and cosmology. Star and constellation identification are also covered as well as viewing of telescopic objects. A field trip may be required.

Instructional Method: **Online**

ASTR 1	40066		Online	ONLINE	3	Farahmandi, A.	3/22 - 5/21		April 1	March 26
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Introduction to Astronomy

This class covers principles of astronomy, including motions of the earth, time measurement, the solar system, stellar and galactic phenomena and cosmology. Star and constellation identification are also covered as well as viewing of telescopic objects. A field trip may be required.

Instructional Method: **Online**

ASTR 1	40067			Online	ONLINE	3	Erbele, J.	1/11 - 3/12		January 21	January 14
ASTR 1	40169			Online	ONLINE	3	Vanden Heuvel, A.	1/11 - 3/12		January 21	January 14
ASTR 1	40170			Online	ONLINE	3	Chukwuka, P.	3/22 - 5/21		April 1	March 26

Observational Astronomy

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, nebulae and galaxies. Passing both ASTR 1 and ASTR 1L satisfies a physical science lab requirement. Corequisite: ASTR 1.

Instructional Method: **Online**

ASTR 1L	40137			Online	ONLINE	1	Vanden Heuvel, A.	1/11 - 3/12		January 21	January 14
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ASTR 1L	40469			Online	ONLINE	1	Farahmandi, A.	3/22 - 5/21		April 1	March 26
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AUTO MECHANICS TECHNOLOGY

Introduction to Automotive Technology

This course was designed for a student's first exposure to all areas of automotive technology based upon the National Technicians Education Foundation (NATEF) general service standards. All major components and systems pertaining to automotive repair and service will be lightly covered to prepare each student.

Instructional Method: **Hybrid**

AUTO 51A	40094	M	1500 1750	State Street (CTEC&WFD)	BAY D ONLINE	4	Blaine, E.	1/11 - 5/21		February 7	January 22
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Please be aware students will be required to attend an on campus lab assessment.

Introduction to Hybrid and Alternative Fuel Vehicles

This course covers Hybrid Vehicles and Alternative Fuels used in modern vehicles for transportation. Topics covered will include safety when working with high voltage, hybrid and electric vehicle drive systems and battery technology. Hybrid and electric vehicle service and maintenance procedures will be covered.

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AUTO MECHANICS TECHNOLOGY

Introduction to Hybrid and Alternative Fuel Vehicles

This course covers Hybrid Vehicles and Alternative Fuels used in modern vehicles for transportation. Topics covered will include safety when working with high voltage, hybrid and electric vehicle drive systems and battery technology. Hybrid and electric vehicle service and maintenance procedures will be covered.

Instructional Method: **Hybrid**

AUTO 52A	40569	F	1800 2050	State Street (CTEC&WFD)	BAY D ONLINE	4	Weller, M.	1/11 - 5/21		February 7	January 22
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Please be aware students will be required to attend an on campus lab assessment.

Engine Performance

This course covers techniques used by the automotive industry to diagnose and repair ignition systems, fuel systems, and emission control systems. Instruction will cover the diagnosis and repair of conventional and electronic ignition systems, fuel injection, emission control devices and introduction to automotive computers.

Instructional Method: **Hybrid**

AUTO 56	40568	W	1500 1750	State Street (CTEC&WFD)	BAY D ONLINE	4	Blaine, E.	1/11 - 5/21		February 7	January 22
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Please be aware students will be required to attend an on campus lab assessment.

BIOLOGY

Concepts in Biology

This course offers an integrated approach to the inter-relationships of the life sciences. Basic processes common to all life forms are explored, including concepts of chemistry, cell biology, genetics, ecology, populations, evolution, physiology and classification.

Instructional Method: **Online**

BIOL 2	40139			Online	ONLINE ONLINE	4	Sage, B.	1/11 - 5/21		February 7	January 22
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BIOL 2	40140			Online	ONLINE ONLINE	4	Sage, B.	1/11 - 5/21		February 7	January 22
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BIOL 2	40471			Online	ONLINE ONLINE	4	Ranney, B.	1/11 - 5/21	<u>Zero Cost Textbook</u>	February 7	January 22
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BIOL 2	40487			Online	ONLINE ONLINE	4	Ranney, B.	1/11 - 5/21	<u>Zero Cost Textbook</u>	February 7	January 22
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BIOL 2	40509			Online	ONLINE ONLINE	4	Minck, J.	1/11 - 5/21	<u>Zero Cost Textbook</u>	February 7	January 22
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BIOLOGY

Concepts in Biology

This course offers an integrated approach to the inter-relationships of the life sciences. Basic processes common to all life forms are explored, including concepts of chemistry, cell biology, genetics, ecology, populations, evolution, physiology and classification.

Instructional Method: **Online**

BIOL 2	40510		Online	ONLINE ONLINE	4	McKinney, K.	1/11 - 5/21	<u>Zero Cost Textbook</u>	February 7	January 22
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Cell and Molecular Biology

This is the first semester of a one-year survey of biology. It includes a survey of the general principles of cell, molecular and evolutionary biology. Emphasis is on the following topics: chemistry of life, cellular organization, biological membranes, energetics, genetics, evolution and diversity of prokaryotes, Protista, and fungi. Laboratory exercises emphasize the application of these topics, especially to biotechnology. This course along with BIOL 20B is the recommended sequence for STEM majors. It is recommended that students contact the anticipated transfer institution to ascertain specific transfer requirements. Prerequisite: MATH 3 and CHEM 2A. Recommended Preparation: ENGL 1A.

Instructional Method: **Online**

BIOL 20A	40557		Online	ONLINE ONLINE	4	Ranney, B.	1/11 - 5/21		February 7	January 22
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Human Anatomy

This course is an introduction to the structure and function of the human body. Included are lectures and demonstrations using models, isolated specimens and multimedia images of human anatomy. Laboratory study includes demonstrations and dissections of a cat and other animal material. Completion of this class requires full participation and use of all lab materials. This course provides the basic knowledge and lab skills to meet the needs of pre-nursing, physical education, physical therapy, and allied health majors.

Instructional Method: **Online**

BIOL 4	40142		Online	ONLINE ONLINE	5	Sage, B.	1/11 - 5/21		February 7	January 22
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This course uses software that is not compatible with some forms of assistive technology, including screen readers. Students who would like to register for this course and utilize assistive technology can request alternative assignments by contacting the ACCESS program. Please email access@barstow.edu as soon as you register for the course to avoid delays in receiving alternative assignments.

BIOL 4	40423		Online	ONLINE ONLINE	5	Gallagher, J.	1/11 - 5/21	<u>Zero Cost Textbook</u>	February 7	January 22
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This course uses software that is not compatible with some forms of assistive technology, including screen readers. Students who would like to register for this course and utilize assistive technology can request alternative assignments by contacting the ACCESS program. Please email access@barstow.edu as soon as you register for the course to avoid delays in receiving alternative assignments.

BIOL 4	40511		Online	ONLINE ONLINE	5	Gallagher, J.	1/11 - 5/21	<u>Zero Cost Textbook</u>	February 7	January 22
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This course uses software that is not compatible with some forms of assistive technology, including screen readers. Students who would like to register for this course and utilize assistive technology can request alternative assignments by contacting the ACCESS program. Please email access@barstow.edu as soon as you register for the course to avoid delays in receiving alternative assignments.

BIOL 4	40597		Online	ONLINE ONLINE	5	Sage, B.	1/11 - 5/21		February 7	January 22
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This course uses software that is not compatible with some forms of assistive technology, including screen readers. Students who would like to register for this course and utilize assistive technology can request alternative assignments by contacting the ACCESS program. Please email access@barstow.edu as soon as you register for the course to avoid delays in receiving alternative assignments.

Subj/Crse	CRN KEY	Days	Begin & End Time	Campus	Room	Units	Instructor	Dates	Zero Cost Textbook	Last Official Day to Add	Last Day to Drop With Refund
BIOLOGY											
Human Anatomy											
This course is an introduction to the structure and function of the human body. Included are lectures and demonstrations using models, isolated specimens and multimedia images of human anatomy. Laboratory study includes demonstrations and dissections of a cat and other animal material. Completion of this class requires full participation and use of all lab materials. This course provides the basic knowledge and lab skills to meet the needs of pre-nursing, physical education, physical therapy, and allied health majors.											
Instructional Method: Online											
BIOL 4	40606			Online	ONLINE ONLINE	5	Gallagher, J.	1/11 - 5/21	<u>Zero Cost Textbook</u>	February 7	January 22
<u>This course uses software that is not compatible with some forms of assistive technology, including screen readers. Students who would like to register for this course and utilize assistive technology can request alternative assignments by contacting the ACCESS program. Please email access@barstow.edu as soon as you register for the course to avoid delays in receiving alternative assignments.</u>											
Human Physiology											
This course is the study of the functioning of the human body at the molecular, cellular, organ and organ system level. Laboratory experiments reinforce the concepts and allow students to gain experience with standard physiology equipment. This course is designed for pre-nursing, physical therapy, occupational therapy, physical education and other allied health majors. Recommended Preparation: 1) Eligible for college-level English. 2) Eligible for college-level math. 3) BIOL 2, BIOL 4 and CHEM 1 (or equivalent).											
Instructional Method: Online											
BIOL 5	40143			Online	ONLINE ONLINE	5	Sage, B.	1/11 - 5/21		February 7	January 22
<u>This course uses software that is not compatible with some forms of assistive technology, including screen readers. Students who would like to register for this course and utilize assistive technology can request alternative assignments by contacting the ACCESS program. Please email access@barstow.edu as soon as you register for the course to avoid delays in receiving alternative assignments.</u>											
BIOL 5	40144			Online	ONLINE ONLINE	5	McGuire, I.	1/11 - 5/21	<u>Zero Cost Textbook</u>	February 7	January 22
<u>This course uses software that is not compatible with some forms of assistive technology, including screen readers. Students who would like to register for this course and utilize assistive technology can request alternative assignments by contacting the ACCESS program. Please email access@barstow.edu as soon as you register for the course to avoid delays in receiving alternative assignments.</u>											
BIOL 5	40512			Online	ONLINE ONLINE	5	McGuire, I.	1/11 - 5/21	<u>Zero Cost Textbook</u>	February 7	January 22
<u>This course uses software that is not compatible with some forms of assistive technology, including screen readers. Students who would like to register for this course and utilize assistive technology can request alternative assignments by contacting the ACCESS program. Please email access@barstow.edu as soon as you register for the course to avoid delays in receiving alternative assignments.</u>											
Microbiology											
This course is an introduction to the anatomy of bacteria, fungi, protozoa, viruses and prions. It covers microbial metabolism, pathogenesis of bacteria & viruses, control of micro-organisms, microbial nutrition and growth, the most common genera of micro-organisms and their connection to disease processes, and the replication of viruses and prions. Aspects of the course that are particularly helpful to health fields include a study of epidemiology and human-microbe interactions, host defenses and the immune system, and the most common infectious diseases of the body systems. Recommended Preparation: 1. Eligible for college-level English (C-ID ENGL 100). 2. Eligible for college-level math (C-ID MATH 110, 120, 130, 140, 150, 151 OR any other course with Intermediate Algebra as a prerequisite) 3. BIOL 2 or equivalent and CHEM 1 or equivalent.											
Instructional Method: Online											
BIOL 8	40145			Online	ONLINE ONLINE	5	Ranney, B.	1/11 - 5/21		February 7	January 22
<u>This course uses software that is not compatible with some forms of assistive technology, including screen readers. Students who would like to register for this course and utilize assistive technology can request alternative assignments by contacting the ACCESS program. Please email access@barstow.edu as soon as you register for the course to avoid delays in receiving alternative assignments.</u>											
BIOL 8	40513			Online	ONLINE ONLINE	5	Pasala, S.	1/11 - 5/21		February 7	January 22
<u>This course uses software that is not compatible with some forms of assistive technology, including screen readers. Students who would like to register for this course and utilize assistive technology can request alternative assignments by contacting the ACCESS program. Please email access@barstow.edu as soon as you register for the course to avoid delays in receiving alternative assignments.</u>											

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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BIOLOGY

Microbiology

This course is an introduction to the anatomy of bacteria, fungi, protozoa, viruses and prions. It covers microbial metabolism, pathogenesis of bacteria & viruses, control of micro-organisms, microbial nutrition and growth, the most common genera of micro-organisms and their connection to disease processes, and the replication of viruses and prions. Aspects of the course that are particularly helpful to health fields include a study of epidemiology and human-microbe interactions, host defenses and the immune system, and the most common infectious diseases of the body systems. Recommended Preparation: 1. Eligible for college-level English (C-ID ENGL 100). 2. Eligible for college-level math (C-ID MATH 110, 120, 130, 140, 150, 151 OR any other course with Intermediate Algebra as a prerequisite) 3. BIOL 2 or equivalent and CHEM 1 or equivalent.

Instructional Method: **Online**

BIOL 8	40514			Online	ONLINE ONLINE	5	Ranney, B.	1/11 - 5/21		February 7	January 22
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This course uses software that is not compatible with some forms of assistive technology, including screen readers. Students who would like to register for this course and utilize assistive technology can request alternative assignments by contacting the ACCESS program. Please email access@barstow.edu as soon as you register for the course to avoid delays in receiving alternative assignments.

BUILDING CONSTRUCTION TECH

Safety Orientation

This course is designed to give students a general overview of the most common job-site hazards and their related safety guidelines. This class meets the requirements for the OSHA 10-hour course.

Instructional Method: **Online**

BCTT 54	40478			Online	ONLINE	1	O'Neal, R.	1/11 - 1/22		January 12	January 11
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BUSINESS ADMINISTRATION

Business Law I

This course focuses on the relationship between the law and business as it pertains to the legal and social environment of business. Concepts covered include the regulatory environment in which business operates and the basic principles of law as applied to ordinary business transactions. Further, this course emphasizes business' responsibility for consumer protection, crimes, torts, computers and the internet, intellectual property, and the Uniform Commercial Code and California Law. The essential elements of contracts are presented and used to analyze and criticize related case studies. Recommended Preparation: ENGL1A.

Instructional Method: **Online**

BADM 1	40041			Online	ONLINE	3	Green, A.	1/11 - 3/12		January 21	January 14
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BADM 1	40190			Online	ONLINE	3	Pasley, D.	3/22 - 5/21		April 1	March 26
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Marketing

This course is a survey of major marketing methods, institutions, and practices. Topics covered include the distribution of goods and services from producer to consumer; trade channels, agencies of distribution, trends in marketing practices. In addition, the role of the consumer in marketing process is emphasized via the study of market research, product planning, pricing, marketing costs, and marketing legislation.

Instructional Method: **Online**

BADM 19	40508			Online	ONLINE	3	Reeves, D.	3/22 - 5/21		April 1	March 26
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<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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BUSINESS ADMINISTRATION

Business Law II

This course will aid in the identification of the law as it is applied to business transactions, personal property and bailments, sales, commercial paper, secured transactions, creditors' rights, insurance agency, and employment. The students will be studying the Uniform Commercial Code and California Law through representative cases.

Instructional Method: **Online**

BADM 2	40555		Online	ONLINE	3	Pasley, D.	3/22 - 5/21		April 1	March 26
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Introduction to Business

This course is a survey of functions, objectives, organization, and structure of business within the American free enterprise system from a local and global perspective. It is designed to illustrate how business influences impact the primary areas of business such as organizational structure, leadership, human resource management and therefore affect a business' ability to reach its organizational goals and objectives. Recommended Preparation: ENGL 1A.

Instructional Method: **Online**

BADM 5	40195		Online	ONLINE	3	Pasley, D.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
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BADM 5	40602		Online	ONLINE	3	Pasley, D.	3/22 - 5/21		April 1	March 26
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CHEMISTRY

Introductory Chemistry

A survey of the principles of chemistry, including general, organic and biochemistry, primarily for pre-nursing, liberal arts, and home economics students. Topics covered: Atomic structure, chemical bonding, stoichiometry, periodic table, trends of elements and periodic table, states of matter, oxidation numbers and redox equations, electrochemistry, solutions, equilibrium, acids and bases, nuclear chemistry, organic nomenclature, basic organic reactions and biochemistry. Recommended Preparation: MATH 50.

Instructional Method: **Online**

CHEM 1	40146		Online	ONLINE ONLINE	4	Nalbandian, C.	1/11 - 5/21		February 7	January 22
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CHEM 1	40147		Online	ONLINE ONLINE	4	Nalbandian, C.	1/11 - 5/21		February 7	January 22
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CHEM 1	40515		Online	ONLINE ONLINE	4	Nalbandian, C.	1/11 - 5/21		February 7	January 22
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<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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CHEMISTRY

General Chemistry I

This is the first semester of a two-semester General Chemistry course sequence. Laboratory work is included. Topics include the structure of atoms and molecules, stoichiometry, types of chemical bonding and chemical reactions, gas laws, molecular structure, acid-base chemistry, and thermodynamics. Laboratory focuses on collection and interpretation of data, and includes spectroscopy. This sequence is required for science, engineering, and pre-dental and pre-medical majors. Prerequisite: MATH 55 or higher.

Instructional Method: **Online**

CHEM 2A	40433		Online	ONLINE ONLINE		5	Vizenor, A.	1/11 - 5/21	<u>Zero Cost Textbook</u>	February 7	January 22
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CHEM 2A	40601		Online	ONLINE ONLINE		5	Nalbandian, C.	1/11 - 5/21		February 7	January 22
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General Chemistry II

This course represents the second semester of a two-semester General Chemistry course sequence intended for majors in the natural sciences (chemistry, biochemistry, biology, physics, pre-medicine), mathematics, and engineering. Topics to be covered include thermodynamics, chemical equilibrium, chemical kinetics, electrochemistry, and chemical applications. Prerequisite: CHEM 2A.

Instructional Method: **Online**

CHEM 2B	40558		Online	ONLINE ONLINE		5	Vizenor, A.	1/11 - 5/21	<u>Zero Cost Textbook</u>	February 7	January 22
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This course uses software that is not compatible with some forms of assistive technology, including screen readers. Students who would like to register for this course and utilize assistive technology can request alternative assignments by contacting the ACCESS program. Please email access@barstow.edu as soon as you register for the course to avoid delays in receiving alternative assignments.

CHILD DEVELOPMENT

Principles and Practices in Early Childhood Education

This course is designed to examine the historical contexts and theoretical perspectives of developmentally appropriate practice in early care and education for children birth through age eight. Explores the typical roles and expectations of early childhood educators. Identifies professional ethics, career pathways, and professional standards. Introduces best practices for developmentally appropriate learning environments, curriculum, and effective pedagogy for young children including how play contributes to children's learning, growth, and development.

Instructional Method: **Online**

CHLD 11A	40088		Online	ONLINE		3	Himmelrick, R.	3/22 - 5/21		April 1	March 26
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Child Health, Safety, and Nutrition

This course will examine laws, regulations, standards, policies, procedures, and best practices related to health, safety, and nutrition in care and education settings for children birth through middle childhood. Includes the teacher's role in prevention strategies, nutrition and meal planning, integrating health safety and nutrition experiences into daily routines, and overall risk management.

Instructional Method: **Online**

CHLD 14	40388		Online	ONLINE		3	Nunes-Gill, N.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
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CHLD 14	40401		Online	ONLINE		3	Donovan, S.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
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<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
CHILD DEVELOPMENT											
Infants and Toddlers: Curriculum											
This course studies infants and toddlers from pre-conception to age three including physical, cognitive, language, social, and emotional growth and development. This includes applying theoretical frameworks to interpret behavior and interactions between heredity and environment, and with an emphasis in the role of family and relationships in development.											
<i>Instructional Method:</i> Online											
CHLD 15A	40519			Online	ONLINE	3	Gonzalez, N.	3/22 - 5/21		April 1	March 26
Programs for School-Age Children: Curriculum and Teaching											
This course is designed to teach students programs and curriculum for the school-age child in a before-and-after school environment. It will teach students to establish an appropriate environment in the classroom, while planning activities and interacting with children.											
<i>Instructional Method:</i> Online											
CHLD 17	40556			Online	ONLINE	3	Donovan, S.	1/11 - 3/12		January 21	January 14
Adult Supervision and Mentoring in Early Childhood Education											
This course reviews methods and principles of supervising student teachers, volunteers, staff, and other adults in early care and education settings. There is an emphasis in the roles and development of early childhood professionals as mentors and leaders.											
<i>Instructional Method:</i> Online											
CHLD 19C	40389			Online	ONLINE	3	Nunes-Gill, N.	3/22 - 5/21		April 1	March 26
Observation and Assessment											
This course is designed for introducing the appropriate use of assessment and observation tools and strategies to document young children's development and learning. The use of findings to inform and plan learning environments and experiences are emphasized. Recording strategies, rating systems, portfolios, and multiple assessment tools will be discussed, along with strategies for collaboration with families and professionals.											
<i>Instructional Method:</i> Online											
CHLD 20	40594			Online	ONLINE	3	Himmelrick, R.	3/22 - 5/21		April 1	March 26
Child Growth and Development (formerly also offered as PSYC 4)											
This course is designed to examine the progression of development in the physical, cognitive, social, and emotional domains and identifies developmental milestones for children from conception through adolescence. Emphasis on interactions between biological processes and environmental factors. Students will observe children, evaluate individual differences, and analyze characteristics of development at various stages according to developmental theories.											
<i>Instructional Method:</i> Online											
CHLD 4	40006			Online	ONLINE	3	Nunes-Gill, N.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
CHLD 4	40031			Online	ONLINE	3	Shane, P.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26

Subj/Crse	CRN KEY	Days	Begin & End Time	Campus	Room	Units	Instructor	Dates	Zero Cost Textbook	Last Official Day to Add	Last Day to Drop With Refund
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CHILD DEVELOPMENT

Practicum - Field Experience

This course is designed for demonstration of developmentally appropriate early childhood program planning and teaching competencies under the supervision of ECE/CD faculty and other qualified early education professionals. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Reflective practice will be emphasized as student teachers design, implement, and evaluate approaches, strategies, and techniques that promote development and learning. Includes exploration of career pathways, professional development, and teacher responsibilities. Prerequisite: CHLD 4; CHLD 6; CHLD 9; CHLD 11A; CHLD 20.

Instructional Method: **Online**

CHLD 49	40391		Online	ONLINE ONLINE		4	Nunes-Gill, N.	1/11 - 5/21		February 7	January 22
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Due to COVID-19 we strongly encourage you to act quickly to complete your hours in case there are further shutdowns or limitations to the amount of hours you may work/volunteer. This course requires you to complete hours in one of the following environments: a preschool, infant/toddler, Family Day Care, or after school age program. Please seek a mentor with the program you are considering and who meets the minimum qualifications of a Master Teacher Permit on the CA State Matrix; they will need to agree to mentor you. We are part of the High Desert Regional Mentor Program and the instructor of this course can provide you with a local list of mentors. You will be required to complete a minimum of 108 hours in the environment of your choice. In addition, you will also complete 36 hours by attending the class either live or online depending upon the semester. You should already have your immunizations up to date, you will need to check with the program you are completing your hours in to verify their requirements. For some programs you may need to be fingerprinted. Please reach out to the instructor of the course if this pertains to you.

Child, Family, Community (formerly also offered as SOCI 6)

This course examines the processes of socialization focusing on the interrelationship of family, school, and community. Examines the influence of multiple societal contexts. Explores the role of collaboration between family, community, and schools in supporting children's development, birth through adolescence.

Instructional Method: **Online**

CHLD 6	40007		Online	ONLINE		3	Nunes-Gill, N.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
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Family Day Care Provider

This course introduces factors involved in providing quality child care in one's home. This course also explains the importance of an establishment of a safe, healthy and stimulating environment; refining or developing policies and parent contracts.

Instructional Method: **Online**

CHLD 61	40518		Online	ONLINE		3	Harris, D.	3/22 - 5/21		April 1	March 26
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Introduction to Early Childhood Curriculum

This course examines an overview of knowledge and skills for providing developmentally appropriate curriculum and environments for children birth through age eight. Students will examine the teacher's role in fostering the joy of learning and use knowledge of children's development, theories of learning and development, using observation and assessment, and examples from various models of developmentally appropriate practice to plan environments and curriculum in all content areas to support children's development and learning integrated throughout indoor and outdoor settings. Prerequisite: CHLD 4.

Instructional Method: **Online**

CHLD 9	40392		Online	ONLINE		3	Harris, D.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
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COMMUNICATIONS

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
COMMUNICATIONS											
Elements of Public Speaking (formerly SPCH 1)											
This course covers the principles of oral communication in audience situations. The focus will be on development of poise in front of an audience, research, speech organization, and effectiveness in delivery.											
<i>Instructional Method:</i> Online											
COMM 1	40202			Online	ONLINE	3	Cheek, G.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
COMM 1	40203			Online	ONLINE	3	Worland, J.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
COMM 1	40204			Online	ONLINE	3	Cheek, G.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
COMM 1	40205			Online	ONLINE	3	Worland, J.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
COMM 1	40206			Online	ONLINE	3	Worland, J.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
COMM 1	40207			Online	ONLINE	3	Worland, J.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
COMM 1	40208			Online	ONLINE	3	Worland, J.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
COMM 1	40290			Online	ONLINE	3	Syrek, T.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
COMM 1	40404			Online	ONLINE	3	Bhebhe, J.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
COMM 1	40405			Online	ONLINE	3	Bhebhe, J.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
COMM 1	40520			Online	ONLINE	3	Syrek, T.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
COMM 1	40540			Online	ONLINE	3	Syrek, T.	1/11 - 5/21	<u>Zero Cost Textbook</u>	February 7	January 22

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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COMMUNICATIONS

Oral Interpretation of Literature

This is an introduction to performance studies. Student's will focus on analysis, appreciation and application of interpretive performance of various forms of literature including poetry, prose and drama.

Instructional Method: **Online**

COMM 2	40521		Online	ONLINE	3	Worland, J.	1/11 - 3/12		January 21	January 14
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Interpersonal Communications (formerly SPCH 3)

This course will blend the important areas of interpersonal communication and the art of platform speaking. Theory and practical skills are analyzed and practiced as they apply to all forms of communication, including one-to-one situations, small group situations and public speaking situations. There is a focus on the creative processes of informative and persuasive deliveries.

Instructional Method: **Online**

COMM 3	40201		Online	ONLINE	3	Cheek, G.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
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Argumentation and Debate

In this course students will learn methods of critical inquiry and advocacy. They will also learn rhetoric, concepts in argumentation, identifying fallacies in reasoning and language, testing evidence and evidence sources, and defending and refuting arguments.

Instructional Method: **Online**

COMM 4	40522		Online	ONLINE	3	Worland, J.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
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COMP & BUSINESS INFO SYSTEMS

Computer Concepts (formerly CSIS 1)

Overview of computer technology, theory, and concepts for multidisciplinary majors. Introduction to microcomputer and supercomputer terminology including history, societal impact, and peripherals. Functions and capabilities of word processors, spreadsheets, databases, and graphics are covered through lecture, discussion, and hands-on assignments. Concepts include types of software and hardware, data structure and management, communications and network fundamentals, and an introduction to basic programming language.

Instructional Method: **Online**

CBIS 1	40241		Online	ONLINE ONLINE	4	Batareseh, A.	1/11 - 3/12		January 21	January 14
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CBIS 1	40243		Online	ONLINE ONLINE	4	Williams, J.	3/22 - 5/21		April 1	March 26
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Internet Security (formerly CSIS 14)

This course will provide an overview of the field of information security and assurance. A spectrum of security activities, methods, methodologies, and procedures will be covered. Additional topics include: inspection and protection of information assets, detection of and reaction to threats to information assets, and examination of pre- and post-incident procedures, technical and managerial responses, an overview of the information security planning and staffing functions, cryptogenic techniques and applications, and security ethical and legal issues. The course covers cross site scripting, SQL injection, rootkits, and virtualization. Prerequisite: CBIS 1.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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COMP & BUSINESS INFO SYSTEMS

Internet Security (formerly CSIS 14)

This course will provide an overview of the field of information security and assurance. A spectrum of security activities, methods, methodologies, and procedures will be covered. Additional topics include: inspection and protection of information assets, detection of and reaction to threats to information assets, and examination of pre- and post-incident procedures, technical and managerial responses, an overview of the information security planning and staffing functions, cryptogenic techniques and applications, and security ethical and legal issues. The course covers cross site scripting, SQL injection, rootkits, and virtualization. Prerequisite: CBIS 1.

Instructional Method: **Online**

CBIS 14	40550			Online	ONLINE ONLINE	4	Williams, J.	1/11 - 3/12		January 21	January 14
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Information Networking

An introduction to the data communication field for the information technology student. Covers the introductory topics of hardware, software, protocols, channels, modems, local area networks, wide area networks, and various applications. Students will gain hands-on experience with current popular communications systems.

Instructional Method: **Online**

CBIS 15	40551			Online	ONLINE ONLINE	3	Williams, J.	3/22 - 5/21		April 1	March 26
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The Internet

This course will serve as an overview of the computing and networking technologies that support the Internet and the World Wide Web. Topics include: email, World Wide Web, chat, instant messaging, voice over IP, internet search, streaming media, Web pages and Web sites, blogs, wikis, podcasting, RSS, social networking, online gaming, and eCommerce. Students will also be made aware of the various web services and have the opportunity to create a simple web page.

Instructional Method: **Online**

CBIS 2	40549			Online	ONLINE ONLINE	3	Williams, J.	1/11 - 3/12		January 21	January 14
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COMPUTER AND INFO. SCIENCE

Computer Architecture and Organization with Assembly Programming

This course provides an overview of the architecture and organization of a modern computer. Topics include: data representation, digital logic, digital systems, CPU, control unit, pipelining, I/O organization, memory, storage systems, sequential and parallel architecture, instruction set architecture and programming in assembly language.

Instructional Method: **Online**

CSIS 10	40523			Online	ONLINE ONLINE	3	Batarseh, A.	3/22 - 5/21		April 1	March 26
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Subj/Crse	CRN KEY	Days	Begin & End Time	Campus	Room	Units	Instructor	Dates	Zero Cost Textbook	Last Official Day to Add	Last Day to Drop With Refund
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COMPUTER AND INFO. SCIENCE

Web Development: HTML, XHTML, and CSS

Fundamentals of webpage development using Hypertext Markup Language (HTML) and Extensible Hypertext Markup Language (XHTML). Students will learn how to produce a multi-page Web site with text, hypertext, images, links; tables, frames, inline styles, embedded styles, and external style sheets. Cascading Style Sheets (CSS) will be covered and used to format and lay out webpage content. CSS is used to format text, links, colors, margins and position text and graphics on a page.

Instructional Method: **Online**

CSIS 29A	40552			Online	ONLINE ONLINE	3	Batareseh, A.	3/22 - 5/21		April 1	March 26
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COSMETOLOGY

Beginning Cosmetology

Beginning Cosmetology (COSM 50A) is an introduction to the basic fundamentals of cosmetology. Theory in rules, regulations, and sanitation, professional image, bacteriology, basic procedures of draping, shampooing, thermal, and wet hairstyling are taught by lecture and demonstration with supervised work practice. In order to meet state requirements for testing, students must have a high school diploma or its equivalent (GED) or have completed 10th grade and passed an ability to benefit (ATB) and be at least 17 years old.

Instructional Method: **Hybrid Interactive Video/Audio**

COSM 50A	40133	MTWR MTWR	0900 1215 1330 1555	Online	TCZ TCZ ONLINE	6	Greenlee, E.	1/11 - 3/12		January 20	January 13
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

COSM 50B	40131	MTWR MTWR	0900 1215 1330 1545	Online	TCZ TCZ ONLINE	6	Blake, C.	3/22 - 5/21		April 12	March 25
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

COSM 50C	40186	MT WR MT WR	0900 1215 0900 1215 1330 1555 1330 1555	Online	TCZ TCZ TCZ TCZ ONLINE	6	Peralta, E.	1/11 - 3/12		January 20	January 13
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Intermediate Cosmetology

Cosmetology 51A is an intermediate study of Cosmetology. Theory in nail growth, structure, diseases and disorders. Nail technology including manicuring/ pedicuring, wraps, acrylic (methacrylate), tips, and gel nails are taught by lecture and demonstration with supervised work under instructor on clients. In order to meet state requirements for testing, students must have a high school diploma or its equivalent (GED) or have completed 10th grade and passed an ability to benefit (ATB) and at least 17 years old. Prerequisite: COSM 50C.

Instructional Method: **Hybrid Interactive Video/Audio**

COSM 51A	40134	MTWR MTWR	0900 1215 1330 1545	Online	TCZ TCZ ONLINE	6	Greenlee, E.	3/22 - 5/21		April 12	March 25
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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COSMETOLOGY

Intermediate Cosmetology

This course is a continuation of the Cosmetology 51 sequence. Theory in cells, anatomy, physiology, and chemistry are covered. Basic facials, acne facials, facials with scrubs, dermal light treatments, hair removal, and makeup procedures are reviewed. This class allows for practice of all salon industry techniques learned in the Cosmetology 50 sequence. In this class students will work under instructor supervision on clients and doll heads. Prerequisite: COSM 51A.

Instructional Method: **Hybrid Interactive Video/Audio**

COSM 51B	40185	MTWR	0900 1215	Online	TCZ	6	Thompson, A.	1/11 - 3/12		January 20	January 13
		MT	0900 1215		TCZ						
		WR	0900 1215		TCZ						
		MTWR	1330 1555		TCZ						
		MT	1330 1555		TCZ						
		WR	1330 1555		TCZ						
					ONLINE						
					ONLINE						

Please be aware that this course requires students to log in for video instruction at the days and times listed above.

COSM 51C	40135	MW	0900 1215	Online	TCZ	6	Murphy, C.	3/22 - 5/21		April 12	March 25
		TR	0900 1215		TCZ						
		MW	1330 1545		TCZ						
		TR	1330 1545		TCZ						
					ONLINE						

Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Advanced Cosmetology

This course provides an intensive study of and practice in the completion of all Cosmetology theory hours and all practical operations required for state board testing. Timed practice for state board testing. Prerequisite: COSM 51C.

Instructional Method: **Hybrid Interactive Video/Audio**

COSM 52	40132	MTWR	0900 1215	Online	TCZ	6	Blake, C.	1/11 - 3/12		January 20	January 13
		MTWR	1330 1555		TCZ						
					ONLINE						

Please be aware that this course requires students to log in for video instruction at the days and times listed above.

DIESEL TECHNOLOGY

Diesel Fuel Injection Systems (formerly AUTO 64)

This course is designed to prepare the student with the basic understanding of the maintenance, diagnosis, and repair of diesel fuel-injection systems. Topics covered will include various fuel systems, requirements and standards of fuel systems, safety precautions, basic operations, principles, hand-on repair and diagnosis, service procedures for several types of fuel injectors and nozzles, and hands-on testing of selected fuel injectors. This course also provides the student with hands-on experience of fuel-injection equipment, tools and the preparation of the ASE T2 examination.

Instructional Method: **Hybrid**

DESL 64	40570	W	1800 2050	State Street (CTEC&WFD)	BAY D ONLINE	4	Blaine, E.	1/11 - 5/21		February 7	January 22
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Please be aware students will be required to attend an on campus lab assessment.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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DIESEL TECHNOLOGY

Diesel Starting, Charging, and Electrical Systems (formerly AUTO 65)

This course is designed to provide students with a working knowledge of diesel engine starting and charging systems, including basic electrical principles, batteries and battery service, electronic devices, AC and DC charging systems, and cranking systems. An emphasis will be placed on theory, use of test equipment, diagnosis of electrical problems, and repair/ replacement of charging and starting systems and their components.

Instructional Method: **Hybrid**

DESL 65	40571	M	1800 2050	State Street (CTE C&WFD)	BAY D ONLINE	4	Locke, S.	1/11 - 5/21		February 7	January 22
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Please be aware students will be required to attend an on campus lab assessment.

ECONOMICS

Macroeconomics

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.

Instructional Method: **Online**

ECON 1	40034			Online	ONLINE	3	McQueen, S.	1/11 - 3/12		January 21	January 14
ECON 1	40484			Online	ONLINE	3	Coffey, M.	3/22 - 5/21		April 1	March 26

Microeconomics

An introductory course focusing on choices of individual economic decision-makers. Topics include scarcity, specialization and trade, market equilibrium, elasticity, production and cost theory, market structures, factor markets, and market failure: pure monopoly, monopolistic competition, oligopoly, wage determination, and pricing of resources. Prerequisite: MATH 50 or MATH 55. Recommended Preparation: MATH 55.

Instructional Method: **Online**

ECON 2	40035			Online	ONLINE	3	Vasconcellos, R.	1/11 - 3/12		January 21	January 14
ECON 2	40192			Online	ONLINE	3	Vasconcellos, R.	3/22 - 5/21		April 1	March 26

EDUCATION

Introduction to Teaching and Learning in K-12 Education

This course introduces students to the concepts and issues related to teaching diverse learners in today's contemporary schools, transitional-kindergarten through grade 12. Topics will include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary educational issues, California's content standards and frameworks, and teacher performance standards. In addition to class time, the course requires a minimum of 45 hours of structured fieldwork in public school elementary classrooms that represent California's diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher. Note: A clear criminal background fingerprint check (Live Scan) and a clear tuberculosis (TB) test are required prior to participation in the observation segment of this class. A misdemeanor and/or felony conviction (including DUI) may result in a student's inability to be assigned to a school for observation experiences. Recommended Preparation: ENGL 1A. There will be a materials fee of \$35 for the Live Scan and \$20 for the TB test/clearance.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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EDUCATION

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Instructional Method: **Interactive Video/Audio**

EDUC 1	40553	TR	1630 1745	Online	TCZ	3	Bradford, H.	1/11 - 5/21		February 2	January 21
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ENGLISH

Graphic Novel as Literature

This course is an introduction to the graphic novel as a literary form. English 11 will cover the evolution of sequential art through the present, focusing on themes of autobiography, biography, identity, society, culture, history, and intertextuality. The course will also include visual analysis necessary for understanding the medium and the formation of literary canon. Prerequisite: ENGL 1A.

Instructional Method: **Online**

ENGL 11	40524			Online	ONLINE	3	Shreve, P.	3/22 - 5/21		April 1	March 26
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Survey of American Literature II 1865-Present

This course is a survey of significant American prose, poetry, and fiction from 1865-present. The course will include substantial reading as well as analysis and discussion of the cultural, multicultural, intellectual and artistic trends embodied within the literature and its era. Prerequisite: ENGL 1A.

Instructional Method: **Online**

ENGL 12B	40465			Online	ONLINE	3	Nylander, S.	3/22 - 5/21		April 1	March 26
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Bridge to College Success - English Level 4

Course is non-credit for those who completed the assessment test and who scored at transfer level but for some reason may not have full skills to adapt to college English instruction. Students will be refreshed on necessary writing and reading processes. Aimed at students who would like to prepare for ENGL 1A and/or who have not been in English or school recently and would like a brief refresher and introduction to college presentation of English.

Instructional Method: **Online**

ENGL 194	40424			Online	ONLINE	0	Firtha, C.	1/11 - 5/21		February 7	January 22
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Linked Section: You must register in both ENGL 1A (CRN 40425) and ENGL 194 (CRN 40424) at once or you will receive a co-requisite error.

ENGL 194	40545			Online	ONLINE	0	Firtha, C.	3/22 - 5/21		April 1	March 26
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Linked Section: You must register in both ENGL 1A (CRN 40300) and ENGL 194 (CRN 40545) at once or you will receive a co-requisite error.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
ENGLISH											
English Composition and Reading											
English composition and reading offers instruction in expository and argumentative writing, appropriate and effective use of language, close reading, cogent thinking, research strategies, information literacy, and documentation. Prerequisite: ENGL 50X (or proper placement based on AB705 mandates).											
<i>Instructional Method:</i> Online											
ENGL 1A	40279			Online	ONLINE	4	Lindsay, N.	3/22 - 5/21		April 1	March 26
ENGL 1A	40280			Online	ONLINE	4	Sanchez, R.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
ENGL 1A	40281			Online	ONLINE	4	Aboud, I.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
ENGL 1A	40295			Online	ONLINE	4	Aboud, I.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
ENGL 1A	40296			Online	ONLINE	4	Krumsiek, K.	1/11 - 3/12		January 21	January 14
ENGL 1A	40298			Online	ONLINE	4	Smith, C.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
ENGL 1A	40299			Online	ONLINE	4	Jefferies, L.	3/22 - 5/21		April 1	March 26
ENGL 1A	40300			Online	ONLINE	4	Firtha, C.	3/22 - 5/21		April 1	March 26
<u>Linked Section: You must register in both ENGL 1A (CRN 40300) and ENGL 194 (CRN 40545) at once or you will receive a co-requisite error.</u>											
ENGL 1A	40301			Online	ONLINE	4	Mitchell, M.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
ENGL 1A	40302			Online	ONLINE	4	Mellado, L.	3/22 - 5/21		April 1	March 26
ENGL 1A	40425			Online	ONLINE	4	Firtha, C.	1/11 - 5/21		February 7	January 22
<u>Linked Section: You must register in both ENGL 1A (CRN 40425) and ENGL 194 (CRN 40424) at once or you will receive a co-requisite error.</u>											
ENGL 1A	40440			Online	ONLINE	4	Walker, S.	1/11 - 3/12		January 21	January 14

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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ENGLISH

Critical Thinking and Composition

Critical Thinking and Composition offers instruction in the reading and evaluation of English prose in a critical and logical way. The emphasis will be on critical analysis and upon the student's development of effective written argument. Prerequisite: ENGL 1A.

Instructional Method: **Online**

ENGL 1C	40285			Online	ONLINE	4	Firtha, C.	3/22 - 5/21		April 1	March 26
ENGL 1C	40286			Online	ONLINE	4	Shreve, P.	1/11 - 5/21		February 7	January 22
ENGL 1C	40372			Online	ONLINE	4	Nylander, S.	1/11 - 3/12		January 21	January 14
ENGL 1C	40373			Online	ONLINE	4	Love, B.	1/11 - 3/12		January 21	January 14
ENGL 1C	40374			Online	ONLINE	4	Brady, M.	1/11 - 3/12		January 21	January 14
ENGL 1C	40376			Online	ONLINE	4	Shreve, P.	3/22 - 5/21		April 1	March 26
ENGL 1C	40377			Online	ONLINE	4	Aboud, I.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
ENGL 1C	40378			Online	ONLINE	4	Nylander, S.	3/22 - 5/21		April 1	March 26
ENGL 1C	40379			Online	ONLINE	4	Aboud, I.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
ENGL 1C	40494			Online	ONLINE	4	Gurley, R.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26

ENGLISH AS A SECOND LANGUAGE

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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ENGLISH AS A SECOND LANGUAGE

Fundamentals of ESL Grammar

This intermediate credit ESL course focuses on the development of fundamental grammar skills in context. Course emphasis is on word forms and common constructions of phrases, building to types of clauses. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of health and/or learning to earn as students plan for success in present and future goals. Prerequisite: ESL 192.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 100	40345	MW	1100 1200	Online	TCZ ONLINE	2	Murphy, J.	1/11 - 3/12		January 20	January 13
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

ESL: The Language of Math

This intermediate credit ESL course focuses on the development of the language of math in context. Course emphasis is on math-specific vocabulary development, fundamentals of mathematical directions, and comprehension and resolution of word problems. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on problem solving in arithmetic and business math, as well as building a fundamental knowledge of algebra, statistics, and accounting. Prerequisite: ESL 192.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 105	40446	F	0900 1030	Online	TCZ ONLINE	3	Murphy, J.	1/11 - 5/21		January 29	January 22
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Fundamentals of ESL Oral Communication

This intermediate credit ESL course focuses on the development of fundamental interactive, oral communication skills in context. Course emphasis is on conversational fluency and norms, small and whole group discussions, and listening comprehension. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of health and/or learning to earn and planning for success in present and future goals. Prerequisite: ESL 192.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 106	40264	MW	0900 1030	Online	TCZ ONLINE	3	Murphy, J.	1/11 - 3/12		January 20	January 13
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Fundamentals of ESL Reading and Writing

This intermediate ESL course focuses on the development of fundamental reading and writing skills. Course emphasis is on developing reading strategies for comprehension, responding to intermediate-level readings, and sentence and paragraph development. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of health and/or learning to earn and planning for success in present and future goals. Prerequisite: ESL 192.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 108	40411	MW	0900 1030	Online	TCZ ONLINE	4	Murphy, J.	3/22 - 5/21		March 29	March 24
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Intermediate ESL Grammar

This high-intermediate ESL course focuses on the continued development of grammar skills in context. Course emphasis is on refinement of use of word forms and strengthening constructions of phrases, clauses, and sentence types. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of health and/or learning to earn as students plan for success in present and future goals. Prerequisite: ESL 100 or ESL 150.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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ENGLISH AS A SECOND LANGUAGE

Intermediate ESL Grammar

This high-intermediate ESL course focuses on the continued development of grammar skills in context. Course emphasis is on refinement of use of word forms and strengthening constructions of phrases, clauses, and sentence types. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of health and/or learning to earn as students plan for success in present and future goals. Prerequisite: ESL 100 or ESL 150.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 110	40346	MW	1100 1200	Online	TCZ ONLINE	2	Murphy, J.	1/11 - 3/12		January 20	January 13
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Intermediate ESL Oral Communication

This high-intermediate credit ESL course focuses on the continued development of oral communication skills. Course emphasis is on building fluency in conversations, small and whole group discussions, short informal and formal speeches, beginning note taking, and listening comprehension. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of health and/or learning to earn and planning for success in present and future goals. Prerequisite: ESL 106 or ESL 156.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 116	40265	MW	0900 1030	Online	TCZ ONLINE	3	Murphy, J.	1/11 - 3/12		January 20	January 13
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Intermediate ESL Reading and Writing

This high-intermediate ESL course focuses on refining fundamental reading and writing skills. Course emphasis is on independent reading, strengthening reading comprehension, analysis of main ideas and significant details, response to facts and opinions, vocabulary enrichment, writing process, paragraph development and organization, purpose, audience, and sentence types. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of health and/or learning to earn and planning for success in present and future goals. Prerequisite: ESL 108 or ESL 158.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 118	40412	MW	0900 1030	Online	TCZ ONLINE	4	Murphy, J.	3/22 - 5/21		March 29	March 24
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Advanced ESL Grammar

This low-advanced ESL course focuses on the refinement of grammar skills in context. Course emphasis is on developing more sophisticated grammatical structures, focusing on adjective clauses, adverbial clauses, noun clauses, and passive voice. Students will also expand knowledge of error correction. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of U.S. history, religion, and/or politics in order to support students as they work toward college-level coursework. Prerequisite: ESL 110 or ESL 160.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 120	40407	TR	1100 1200	Online	TCZ ONLINE	2	Murphy, J.	1/11 - 3/12		January 19	January 14
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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ENGLISH AS A SECOND LANGUAGE

Advanced ESL Oral Communication

This low-advanced ESL course focuses on the development of oral communication skills in academic and professional settings. Students listen and respond to lectures, presentations, and discussions on advanced academic and professional topics. Course emphasis is on critical discussion and presentations, strengthening of comprehension and fluency, search for bias, effective note-taking strategies, and vocabulary enrichment. Students build strategies of analysis and evaluation of main ideas, details, facts, and opinions. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of U.S. history, religion, and/or politics in preparation for college-level coursework. Prerequisite: ESL 116 or ESL 166.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 126	40268	TR	0900 1030	Online	TCZ ONLINE	3	Murphy, J.	1/11 - 3/12		January 19	January 14
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Advanced ESL Reading and Writing

This advanced ESL course focuses on strengthening reading and writing skills. Course emphasis is on independent reading, strengthening comprehension, evaluation of main ideas and significant details, analysis and evaluation of facts and opinions, search for bias, vocabulary enrichment, essay development and organization, purpose, audience, and sentence types. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of U.S. history, religion, and/or politics in preparation for college-level coursework. Prerequisite: ESL 118 or ESL 168.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 128	40415	TR	0900 1030	Online	TCZ ONLINE	4	Murphy, J.	3/22 - 5/21		March 30	March 25
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Bridge to Academic Success: Grammar for Editing

This high-advanced ESL course focuses on grammar for editing in context. Course emphasis is on advanced error correction in strengthening clarity in writing and presentations. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of U.S. history, religion, and/or politics. Designed to prepare students for degree-applicable courses. Prerequisite: ESL 120 or ESL 170.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 130	40408	TR	1100 1200	Online	TCZ ONLINE	2	Murphy, J.	1/11 - 3/12		January 19	January 14
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Bridge to Academic Oral Communication

This high-advanced ESL course focuses on the expansion of oral communication skills in academic and professional settings. Students listen and respond to lectures, presentations, and discussions on advanced academic and professional topics. Course emphasis is on logical, argumentative presentations, identification of research as support, critical discussion, strengthening of comprehension and fluency, evaluation of presented ideas, analysis of bias, expanding effective note-taking strategies, and vocabulary enrichment. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of U.S. history, religion, and/or politics. Designed to prepare students for degree-applicable courses. Prerequisite: ESL 126 or ESL 176.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 136	40269	TR	0900 1030	Online	TCZ ONLINE	3	Murphy, J.	1/11 - 3/12		January 19	January 14
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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ENGLISH AS A SECOND LANGUAGE

Bridge to College Reading and Writing

This high-advanced ESL course is designed to prepare students for college-level coursework. Through the reading and analysis of academic texts, students will build their reading comprehension and fluency in English as they focus on essay structure and development. Course emphasis is on developing thesis statements, building paragraphs into essays, refining approach to the writing process, purpose, audience, and advanced sentence production. Study and research skills are also covered in this course. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of U.S. history, religion, and/or politics. Prerequisite: ESL 128 or ESL 178.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 138	40416	TR	0900 1030	Online	TCZ ONLINE	4	Murphy, J.	3/22 - 5/21		March 30	March 25
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Fundamentals of ESL Grammar

This intermediate ESL course focuses on the development of fundamental grammar skills in context. Course emphasis is on word forms and common constructions of phrases, building to types of clauses. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of health and/or learning to earn as students plan for success in present and future goals. This is a non-credit course mirroring ESL 100 (credit). Prerequisite: ESL 192.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 150	40347	MW	1100 1200	Online	TCZ ONLINE	0	Murphy, J.	1/11 - 3/12		January 20	January 13
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

ESL: The Language of Math

This intermediate noncredit ESL course focuses on the development of the language of math in context. Course emphasis is on math-specific vocabulary development, fundamentals of mathematical directions, and comprehension and resolution of word problems. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on problem solving in arithmetic and business math, as well as building a fundamental knowledge of algebra, statistics, and accounting. This course mirrors ESL 105 (credit). Prerequisite: ESL 192.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 155	40473	F	0900 1030	Online	TCZ ONLINE	0	Murphy, J.	1/11 - 5/21		January 29	January 22
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Fundamentals of ESL Oral Communication

This intermediate ESL course focuses on the development of fundamental interactive, oral communication skills in context. Course emphasis is on conversational fluency and norms, small and whole group discussions, and listening comprehension. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of health and/or learning to earn and planning for success in present and future goals. This is a non-credit course mirroring ESL 106 (credit). Prerequisite: ESL 192.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 156	40266	MW	0900 1030	Online	TCZ ONLINE	0	Murphy, J.	1/11 - 3/12		January 20	January 13
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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ENGLISH AS A SECOND LANGUAGE

Fundamentals of ESL Reading and Writing

This intermediate ESL course focuses on the development of fundamental reading and writing skills. Course emphasis is on developing reading strategies for comprehension, responding to intermediate-level readings, and sentence and paragraph development. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of health and/or learning to earn and planning for success in present and future goals. This is a non-credit course mirroring ESL 108 (credit). Prerequisite: ESL 192.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 158	40413	MW	0900 1030	Online	TCZ ONLINE	0	Murphy, J.	3/22 - 5/21		March 29	March 24
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Intermediate ESL Grammar

This high-intermediate ESL course focuses on the continued development of grammar skills in context. Course emphasis is on refinement of use of word forms and strengthening constructions of phrases, clauses, and sentence types. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of health and/or learning to earn as students plan for success in present and future goals. This is a non-credit course mirroring ESL 110 (credit). Prerequisite: ESL 100 or ESL 150.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 160	40348	MW	1100 1200	Online	TCZ ONLINE	0	Murphy, J.	1/11 - 3/12		January 20	January 13
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Intermediate ESL Oral Communication

This high-intermediate ESL course focuses on the continued development of oral communication skills. Course emphasis is on building fluency in conversations, small and whole group discussions, short informal and formal speeches, beginning note taking, and listening comprehension. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of health and/or learning to earn and planning for success in present and future goals. This is a non-credit course mirroring ESL 116 (credit). Prerequisite: ESL 106 or ESL 156.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 166	40267	MW	0900 1030	Online	TCZ ONLINE	0	Murphy, J.	1/11 - 3/12		January 20	January 13
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Intermediate ESL Reading and Writing

This high-intermediate ESL course focuses on refining fundamental reading and writing skills. Course emphasis is on independent reading, strengthening reading comprehension, analysis of main ideas and significant details, response to facts and opinions, vocabulary enrichment, writing process, paragraph development and organization, purpose, audience, and sentence types. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of health and/or learning to earn and planning for success in present and future goals. This noncredit course mirrors ESL 118 (credit). Prerequisite: ESL 108 or ESL 158.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 168	40414	MW	0900 1030	Online	TCZ ONLINE	0	Murphy, J.	3/22 - 5/21		March 29	March 24
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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ENGLISH AS A SECOND LANGUAGE

Advanced ESL Grammar

This low-advanced ESL course focuses on the refinement of grammar skills in context. Course emphasis is on developing more sophisticated grammatical structures, focusing on adjective clauses, adverbial clauses, noun clauses, and passive voice. Students will also expand knowledge of error correction. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of U.S. history, religion, and/or politics in order to support students as they work toward college-level coursework. This non-credit course mirrors ESL 120 (credit). Prerequisite: ESL 110 or ESL 160.

Instructional Method: Hybrid Interactive Video/Audio

ESL 170	40409	TR	1100 1200	Online	TCZ ONLINE	0	Murphy, J.	1/11 - 3/12		January 19	January 14
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Advanced ESL Oral Communication

This low-advanced ESL course focuses on the development of oral communication skills in academic and professional settings. Students listen and respond to lectures, presentations, and discussions on advanced academic and professional topics. Course emphasis is on critical discussion and presentations, strengthening of comprehension and fluency, search for bias, effective note-taking strategies, and vocabulary enrichment. Students build strategies of analysis and evaluation of main ideas, details, facts, and opinions. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of U.S. history, religion, and/or politics in preparation for college-level coursework. This is a non-credit course mirroring ESL 126 (credit). Prerequisite: ESL 116 or ESL 166.

Instructional Method: Hybrid Interactive Video/Audio

ESL 176	40270	TR	0900 1030	Online	TCZ ONLINE	0	Murphy, J.	1/11 - 3/12		January 19	January 14
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Advanced ESL Reading and Writing

This advanced ESL course focuses on strengthening reading and writing skills. Course emphasis is on independent reading, strengthening comprehension, evaluation of main ideas and significant details, analysis and evaluation of facts and opinions, search for bias, vocabulary enrichment, essay development and organization, purpose, audience, and sentence types. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of U.S. history, religion, and/or politics in preparation for college-level coursework. This noncredit course mirrors ESL 128 (credit). Prerequisite: ESL 118 or ESL 168.

Instructional Method: Hybrid Interactive Video/Audio

ESL 178	40417	TR	0900 1030	Online	TCZ ONLINE	0	Murphy, J.	3/22 - 5/21		March 30	March 25
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

ESL Grammar for Academic Writing and Editing

This high-advanced ESL course focuses on grammar for editing in context. Course emphasis is on advanced error correction in strengthening clarity in writing and presentations. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of U.S. history, religion, and/or politics. Designed to prepare students for degree-applicable courses. This non-credit course mirrors ESL 130 (credit). Prerequisite: ESL 120 or ESL 170.

Instructional Method: Hybrid Interactive Video/Audio

ESL 180	40410	TR	1100 1200	Online	TCZ ONLINE	0	Murphy, J.	1/11 - 3/12		January 19	January 14
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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ENGLISH AS A SECOND LANGUAGE

Bridge to Academic Oral Communication

This high-advanced ESL course focuses on the expansion of oral communication skills in academic and professional settings. Students listen and respond to lectures, presentations, and discussions on advanced academic and professional topics. Course emphasis is on logical, argumentative presentations, identification of research as support, critical discussion, strengthening of comprehension and fluency, evaluation of presented ideas, analysis of bias, expanding effective note-taking strategies, and vocabulary enrichment. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of U.S. history, religion, and/or politics. Designed to prepare students for degree-applicable courses. This is a non-credit course mirroring ESL 136 (credit).

Prerequisite: ESL 126 or ESL 176.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 186	40271	TR	0900 1030	Online	TCZ ONLINE	0	Murphy, J.	1/11 - 3/12		January 19	January 14
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Bridge to College Reading and Writing

This high-advanced ESL course is designed to prepare students for college-level coursework. Through the reading and analysis of academic texts, students will build their reading comprehension and fluency in English as they focus on essay structure and development. Course emphasis is on developing thesis statements, building paragraphs into essays, refining approach to the writing process, purpose, audience, and advanced sentence production. Study and research skills are also covered in this course. This course takes a content-based approach to instruction, connecting skills to cultural context, focusing on topics of U.S. history, religion, and/or politics. This noncredit course mirrors ESL 138 (credit). Prerequisite: ESL 128 or ESL 178.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 188	40418	TR	0900 1030	Online	TCZ ONLINE	0	Murphy, J.	3/22 - 5/21		March 30	March 25
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Developing Literacy

This is a beginning course in English as a Second Language that focuses on developing literacy. This course focuses on survival English skills through building vocabulary and developing speaking, listening, reading, and writing skills. Students are introduced to common practices in the American classroom and norms of social exchanges in the United States. This course, in conjunction with ESL 192, will prepare students for intermediate courses in ESL.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 190	40419	TR	0900 1150	Online	TCZ ONLINE	0	Duran, P.	1/11 - 3/12		January 19	January 14
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

ESL 190	40421	TR	0900 1150	Online	TCZ ONLINE	0	Duran, P.	3/22 - 5/21		March 30	March 25
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

Expanding Foundations in ESL

This is an English as a Second Language course that focuses on expanding the foundations of literacy. This course continues to build on the use of language in everyday contexts through focus on vocabulary development, pronunciation, speaking practice, listening comprehension, and fundamental reading and writing skills. This course, in conjunction with ESL 190, is designed to prepare students for intermediate ESL coursework. This is a non-credit course. Prerequisite: ESL 190.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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ENGLISH AS A SECOND LANGUAGE

Expanding Foundations in ESL

This is an English as a Second Language course that focuses on expanding the foundations of literacy. This course continues to build on the use of language in everyday contexts through focus on vocabulary development, pronunciation, speaking practice, listening comprehension, and fundamental reading and writing skills. This course, in conjunction with ESL 190, is designed to prepare students for intermediate ESL coursework. This is a non-credit course. Prerequisite: ESL 190.

Instructional Method: **Hybrid Interactive Video/Audio**

ESL 192	40420	TR	0900 1150	Online	TCZ ONLINE	0	Duran, P.	1/11 - 3/12		January 19	January 14
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

ESL 192	40422	TR	0900 1150	Online	TCZ ONLINE	0	Duran, P.	3/22 - 5/21		March 30	March 25
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Please be aware that this course requires students to log in for video instruction at the days and times listed above.

ENTREPRENEURSHIP

Entrepreneurship (formerly BADM 3)

To thrive in today's world, one has to be resourceful, creative, innovative, competitive, and entrepreneurial. Entrepreneurship explores the process and skills students need to recognize enterprising opportunities in the 21st Century environment and understand how to benefit from them. Also presented in this course are descriptions of real entrepreneurs in action, facing the challenges that entrepreneurs must deal with, when making good and even some not-so-good decisions. Special emphasis is placed on three key aspects of entrepreneurship: (1) the individual, their attitudes, behaviors, and skills that make entrepreneurs successful; (2) the generation, validation, and execution of business opportunities; (3) the strategy and plans for the business.

Instructional Method: **Online**

ENTR 1	40525			Online	ONLINE	3	Pasley, D.	1/11 - 3/12		January 21	January 14
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Entrepreneurship Basic: Design Thinking and Supply Chain

Entrepreneurship has been described as the capacity and willingness to develop, organize, and manager a new business venture along with any of its risks in order to make a profit. This course will expose students to entrepreneurial concepts such as supply chain management, problem solving, and communication with an emphasis on design thinking. Design thinking encourages organizations to focus on the people they are creating for and leads to human-centered products, services, and internal processes. Recommended Preparation: ENTR 1.

Instructional Method: **Online**

ENTR 2	40526			Online	ONLINE	3	Pasley, D.	1/11 - 3/12		January 21	January 14
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Starting a Business with Limited Resources

Entrepreneurs start and grow businesses in home offices, garages, and even on public transportation using a laptop or smartphone. Social media and technology have leveled the playing field for the ordinary person wanting to become an entrepreneur. These entrepreneurs are finding creative ways of starting businesses, in spite of limited networks and financial resources. This course will introduce students to bootstrapping: limited-resource startup concepts and strategies. Additionally, this course will engage students by focusing on lean market strategies for testing product/service validity and identifying social media strategies, platforms, and tactics to launch their business, or expand their reach. Students will experience entrepreneurial situations and best practices through case studies, interactive sessions, and class exercises. Recommended Preparation: ENTR 1.

Instructional Method: **Online**

ENTR 3	40367			Online	ONLINE	3	Pasley, D.	3/22 - 5/21		April 1	March 26
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<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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ENTREPRENEURSHIP

Money, Finance and Accounting for Entrepreneurs

One of the more challenging aspects of entrepreneurship deals with financing. Determine how much you need and how entrepreneurial finance works: where, when and how to get financing, equity, bootstraps, angel investors and venture capitalists. Learn the critical importance of leveraging resources. Discover what you really need to know about bookkeeping, accounting, and using numbers to make smarter decisions. Recommended Preparation: ENTR 1.

Instructional Method: **Online**

ENTR 4	40426		Online	ONLINE	3	Vasconcellos, R.	3/22 - 5/21		April 1	March 26
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ETHNIC STUDIES

Introduction to Ethnic Studies

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.

Instructional Method: **Online**

ETHN 1	40563		Online	ONLINE	3	Seals, B.	3/22 - 5/21		April 1	March 26
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GEOLOGY

Physical Geology

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.

Instructional Method: **Online**

GEO 1L	40491		Online	ONLINE ONLINE	4	Bulkley, S.	1/11 - 5/21		February 7	January 22
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This course uses software that is not compatible with some forms of assistive technology, including screen readers. Students who would like to register for this course and utilize assistive technology can request alternative assignments by contacting the ACCESS program. Please email access@barstow.edu as soon as you register for the course to avoid delays in receiving alternative assignments.

The Age of the Dinosaurs

This course covers the historical geology and paleontology of the Mesozoic era including dinosaur evolution, ecology, lifestyles, habitat and extinction. Current controversies in dinosaur research will also be discussed. One-day (8-10 hours) field trip required.

Instructional Method: **Online**

GEO 4	40527		Online	ONLINE	3	Bulkley, S.	3/22 - 5/21		April 1	March 26
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HEALTH AND SAFETY

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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HEALTH AND SAFETY

Health Education

This course focuses on the exploration of major health issues and behaviors in the various dimensions of health. Emphasis is placed on health topics which include: health care systems; substances including alcohol, caffeine, narcotics and other drugs; ecology; birth to death cycle; self-awareness; effective consumer practices; nutrition and physical conditioning.

Instructional Method: **Online**

HEAL 1	40049			Online	ONLINE	3	Puryear, E.	3/22 - 5/21		April 1	March 26
HEAL 1	40179			Online	ONLINE	3	Puryear, E.	1/11 - 3/12		January 21	January 14
HEAL 1	40541			Online	ONLINE	3	Karpel, M.	1/11 - 5/21		February 7	January 22

Nutrition

This course covers the fundamentals of nutrition, the interaction of carbohydrates, fats, proteins, vitamins, minerals and water in the human body. Students will learn how food choices affect disease and energy balance. Students will also learn to distinguish between scientific information and popular nutrition misinformation. Students will understand how their own personal choices impact their overall health.

Instructional Method: **Online**

HEAL 2	40056			Online	ONLINE	3	Puryear, E.	1/11 - 3/12		January 21	January 14
HEAL 2	40171			Online	ONLINE	3	Puryear, E.	3/22 - 5/21		April 1	March 26

HISTORY

Survey of Western Civilization II: The Renaissance to the Present Day

This course provides an overview of the political, cultural and philosophical development of western civilization from the Renaissance to the present. It focuses on major historical personages, solutions for and alternatives to historical problems, and how history instructs and inspires future generations.

Instructional Method: **Online**

HIST 1B	40329			Online	ONLINE	3	Stanek, T.	3/22 - 5/21		April 1	March 26
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Survey of US History I: The Colonial Period through Reconstruction

Students examine the development of the United States from the European colonization of North America and the United States through the Reconstruction Period. This course includes an in-depth study of the U.S. Constitution. There is a focus on major historical personages and important historical problems.

Instructional Method: **Online**

HIST 2A	40018			Online	ONLINE	3	Menzing, T.	1/11 - 3/12		January 21	January 14
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<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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HISTORY

Survey of US History I: The Colonial Period through Reconstruction

Students examine the development of the United States from the European colonization of North America and the United States through the Reconstruction Period. This course includes an in-depth study of the U.S. Constitution. There is a focus on major historical personages and important historical problems.

Instructional Method: **Online**

HIST 2A	40026			Online	ONLINE	3	Hill, M.	3/22 - 5/21		April 1	March 26
HIST 2A	40038			Online	ONLINE	3	Radzikowski, J.	3/22 - 5/21		April 1	March 26
HIST 2A	40330			Online	ONLINE	3	Lenerville, J.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26

Survey of US History II: From the End of Reconstruction to the 21st Century

This course covers the political, economic, and social development of the United States from the end of Reconstruction to the 21st century. The course will focus on the historical significance of major economic, technological and scientific developments as well as major political changes, ideologies, conflicts and events. A field trip may be assigned.

Instructional Method: **Online**

HIST 2B	40027			Online	ONLINE	3	Du Plessis, E.	1/11 - 3/12		January 21	January 14
HIST 2B	40028			Online	ONLINE	3	Rittman, P.	3/22 - 5/21		April 1	March 26

History of California

Students survey the history of California from the Ice Age to the present. This includes investigations and analysis of prehistoric human settlement, historic Native Americans, Spanish and Mexican occupations, the 49ers, the founding of the state, its growth in the 20th century, and its current role as a political and economic giant. A field trip may be required.

Instructional Method: **Online**

HIST 5	40057			Online	ONLINE	3	Moore, S.	1/11 - 3/12		January 21	January 14
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Survey of World Civilizations II: From the 1300s to the Present

This course covers world history from the 14th century to the present. The course will emphasize global trends and developments that have shaped human history, such as the Age of Exploration, the Protestant Reformation, the era of colonization, wars of independence, the world wars, the Cold War, and the development of Third World countries after World War II. Important historical problems and personages will be analyzed.

Instructional Method: **Online**

HIST 8B	40529			Online	ONLINE	3	Vasconcellos, R.	1/11 - 3/12		January 21	January 14
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<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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HUMANITIES

Humanities through the Arts

This course is a survey of the central themes of the humanities through the arts. It is an introduction to the humanities through the study of the elements, interconnectedness, and historical significance of films, drama, music, literature, painting, sculpture, and architecture. Students will develop skills to understand, interpret, and critique the arts. Recommended Preparation: ENGL 1A.

Instructional Method: **Online**

HUMA 1	40022		Online	ONLINE	3	Harden, M.	1/11 - 3/12		January 21	January 14
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HUMA 1	40023		Online	ONLINE	3	Harden, M.	1/11 - 3/12		January 21	January 14
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HUMA 1	40073		Online	ONLINE	3	Lucas, K.	3/22 - 5/21		April 1	March 26
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HUMA 1	40074		Online	ONLINE	3	Medrano, V.	3/22 - 5/21		April 1	March 26
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Renaissance to Modern

An interdisciplinary study of the movements in art, music, literature, and philosophy from 1500s Western Civilization to the modern era within a cultural and historical perspective. Special attention is paid to the history of arts, religion, and philosophy. Recommended Preparation: ENGL 1A.

Instructional Method: **Online**

HUMA 3	40530		Online	ONLINE	3	Rehfeld, A.	3/22 - 5/21		April 1	March 26
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Survey of Film

This course will focus on major films, including classics, from 1900s which will be viewed and discussed. Director's techniques, cinematography, filmic means, and grammar of film, philosophy, and literary value will be studied.

Instructional Method: **Online**

HUMA 4	40238		Online	ONLINE	3	Worland, J.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
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HUMA 4	40531		Online	ONLINE	3	Worland, J.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
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HUMA 4	40589		Online	ONLINE	3	Medrano, V.	1/11 - 5/21	<u>Zero Cost Textbook</u>	February 7	January 22
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<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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HUMANITIES

Multi-Cultural Mythology

An introductory survey course in comparative mythology. Students will read, discuss, and write about basic myths as they have appeared in different civilizations. Basic myths, such as those dealing with creation, earliest times, the flood, tales of love, tales of heroes, journeys to other worlds, and some examination of the concept of myth itself and its values in today's society will be explored.

Recommended Preparation: ENGL 1A.

Instructional Method: **Online**

HUMA 5	40024			Online	ONLINE	3	Rehfeld, A.	3/22 - 5/21		April 1	March 26
HUMA 5	40075			Online	ONLINE	3	Shreve, P.	1/11 - 3/12		January 21	January 14

INDUST. MAINT. MECHANIC TECH

Basic Layout

This course is designed to give the student the fundamental skills necessary to perform basic layout on the jobsite. The skills covered in this course are tools used for layout, basic layout techniques, scribing, and using quantitative skills required in layout.

Instructional Method: **Hybrid**

IMMT 70	40579	TR	1630 1920	State Street (CTE C&WFD)	BAY E ONLINE	1	O'Neal, R.	1/25 - 5/21		January 26	January 26
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Please be aware students will be required to attend an on campus lab assessment.

Introduction to Piping

This course is designed to give the student the fundamental skills necessary to work with various types of piping on the jobsite. This course covers concepts in copper and plastic piping and introduction to ferrous metal piping practices.

Instructional Method: **Hybrid**

IMMT 71	40580	TR	1630 1920	State Street (CTE C&WFD)	BAY E ONLINE	1	O'Neal, R.	2/8 - 5/21		February 9	February 9
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Please be aware students will be required to attend an on campus lab assessment.

Identify, Install and Maintain Valves

This course is designed to give the student the fundamental skills necessary to work with various types of valves and perform basic hydrostatic and pneumatic testing on the jobsite.

Instructional Method: **Hybrid**

IMMT 73	40581	TR	1630 1920	State Street (CTE C&WFD)	BAY E ONLINE	1	O'Neal, R.	2/22 - 5/21		February 23	February 23
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Please be aware students will be required to attend an on campus lab assessment.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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INDUST. MAINT. MECHANIC TECH

Introduction to Bearings

This course is designed to give the student the fundamental skills necessary to work with various types of bearings on the jobsite.

Instructional Method: **Hybrid**

IMMT 74	40582	TR	1630 1820	State Street (CTEC&WFD)	BAY E ONLINE	1	O'Neal, R.	3/8 - 5/21		March 9	March 9
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Please be aware students will be required to attend an on campus lab assessment.

Introduction to Steam Systems

This course is designed to give the student the fundamental skills necessary to work with various types of bearings on the jobsite.

Instructional Method: **Hybrid**

IMMT 75	40583	TR	1630 2020	State Street (CTEC&WFD)	BAY E ONLINE	2	O'Neal, R.	3/29 - 5/21		March 31	March 31
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Please be aware students will be required to attend an on campus lab assessment.

Distillation Towers and Vessels

This course is designed to give the student the fundamental skills necessary to work with various types of distillation towers and vessels found on the jobsite.

Instructional Method: **Hybrid**

IMMT 76	40365	TR	1630 1920	State Street (CTEC&WFD)	BAY E ONLINE	1	O'Neal, R.	4/19 - 5/21		April 20	April 20
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Please be aware students will be required to attend an on campus lab assessment.

Heaters, Furnaces, Heat Exchanges, Cooling

This course is designed to give the student the fundamental skills necessary to work with various types of heaters, furnaces, heat exchangers, cooling towers and fin fans commonly found on the jobsite.

Instructional Method: **Hybrid**

IMMT 77	40366	TR	1630 2020	State Street (CTEC&WFD)	BAY E ONLINE	2	O'Neal, R.	5/3 - 5/21		May 5	May 5
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Please be aware students will be required to attend an on campus lab assessment.

INDUSTRIAL MAINT & MECH TECH

Alternating Current (formerly IMMT 80A)

This course is designed to give the fundamental skills necessary to understand alternating current. Covered in this course are properties and calculations for AC waveforms, resistive, inductive, and capacitive AC circuits. Also covered are power triangle calculations, transformers, and series/parallel circuits. A variety of topics will be addressed, including electrical safety, the National Electrical Code, and electrical theory. This course will be appropriate for students who wish to pursue a career in the residential, commercial or industrial electrical field. Prerequisite: ELCT 70E.

Instructional Method: **Hybrid**

IMEI 80A	40573	MW	1630 2020	State Street (CTEC&WFD)	BAY B ONLINE	2	Hill, T.	1/11 - 5/21		January 13	January 13
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Please be aware students will be required to attend an on campus lab assessment.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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INDUSTRIAL MAINT & MECH TECH

Electrical and Instrumentation Test Equipment (formerly IMMT 80B)

This course is designed to give the fundamental skills necessary to use electrical testing equipment. Covered in this course are test instruments, troubleshooting, meter polarity, reading and converting scales, use of a frequency meter, and use of digital and analog meters. In this course, a student will learn to use a variety of test instruments and select the correct instrument for a given measurement. This course will be appropriate for students who wish to pursue a career in the residential, commercial or industrial electrical field. Prerequisite: IMEI 80A.

Instructional Method: **Hybrid**

IMEI 80B	40574	MW	1630 1920	State Street (CTE C&WFD)	BAY B ONLINE	1	Hill, T.	2/1 - 5/21		February 2	February 2
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Please be aware students will be required to attend an on campus lab assessment.

Flow, Pressure, Level and Temperature (formerly IMMT 80C)

This course is designed to give the fundamental skills necessary to understand various measurements used in the electrical field. Covered in this course are properties and calculations for flow, pressure, level, and temperature. The student will learn how these values are used and measured in instrumentation systems. This course will be appropriate for students who wish to pursue a career in the residential, commercial or industrial electrical field. Prerequisite: IMEI 80B.

Instructional Method: **Hybrid**

IMEI 80C	40575	MW	1630 2020	State Street (CTE C&WFD)	BAY B ONLINE	1	Hill, T.	2/16 - 5/21		February 17	February 17
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Please be aware students will be required to attend an on campus lab assessment.

Process Quantitative Skills (formerly IMMT 80D)

This course is designed to give the fundamental skills necessary to perform various mathematical operations used in the field. Covered in this course are basic mathematical operations necessary in instrumentation, pressure measurement, and factor conversion. This course will also cover conduit hand bending. A variety of bends will be addressed, including 90-degree, offsets, back-to-back, and saddle bends. This course will be appropriate for students who wish to pursue a career in the residential, commercial or industrial electrical field. Prerequisite: IMEI 80C.

Instructional Method: **Hybrid**

IMEI 80D	40576	MW	1630 1920	State Street (CTE C&WFD)	BAY B ONLINE	2	Hill, T.	3/1 - 5/21		March 3	March 3
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Please be aware students will be required to attend an on campus lab assessment.

Process Tubing Installation and Testing (formerly IMMT 80E)

This course is designed to give the fundamental skills necessary to choose and install tubing for different applications. Covered in this course are properties and purposes of tubing including proper handling. A variety of topics will be addressed, including fittings, cutting, bending, flaring, proper tools, and safety procedures. This course will be appropriate for students who wish to pursue a career in the industrial maintenance mechanical field. Prerequisite: IMEI 80D.

Instructional Method: **Hybrid**

IMEI 80E	40577	MW	1630 1920	State Street (CTE C&WFD)	TBD ONLINE	2	O'Neal, R.	3/29 - 5/21		April 1	March 29
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Please be aware students will be required to attend an on campus lab assessment.

Introduction to Instrument Drawings and Documents (Formerly IMMT 80F)

This course is designed to give the fundamental skills necessary to extract and use information found on drawings and documents commonly used in the field. Covered in this course are standard Instrument Society of America (ISA) instrument symbols and abbreviations, instrument indexes, general instrument specifications, general notes and details. A variety of topics will be addressed, including installation detail drawings, location drawings, and control loops. This course will be appropriate for students who wish to pursue a career in the industrial maintenance mechanical field. Prerequisite: IMEI 80E.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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INDUSTRIAL MAINT & MECH TECH

Introduction to Instrument Drawings and Documents (Formerly IMMT 80F)

This course is designed to give the fundamental skills necessary to extract and use information found on drawings and documents commonly used in the field. Covered in this course are standard Instrument Society of America (ISA) instrument symbols and abbreviations, instrument indexes, general instrument specifications, general notes and details. A variety of topics will be addressed, including installation detail drawings, location drawings, and control loops. This course will be appropriate for students who wish to pursue a career in the industrial maintenance mechanical field. Prerequisite: IMEI 80E.

Instructional Method: **Hybrid**

IMEI 80F	40578	MW	1630 1920	State Street (CTEC&WFD)	TBD ONLINE	2	O'Neal, R.	4/26 - 5/21		April 29	April 28
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Please be aware students will be required to attend an on campus lab assessment.

KINESIOLOGY - ACTIVITY

Beginning Volleyball (formerly PEAC 11)

This course focus will be on the fundamentals, team play, rules and strategy, of the game of volleyball.

Instructional Method: **Online**

KINA 16A	40255			Online	ONLINE	1	Mendoza, M.	1/11 - 3/12		January 21	January 14
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Beginning Tennis

This course teaches the theory and practice in grips, basic strokes, basic positions, scoring formulas, rules and regulations and terminology.

Instructional Method: **Online**

KINA 21A	40609			Online	ONLINE	1	Mendoza, M.	3/22 - 5/21		April 1	March 26
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General Activity (formerly PEAC 30)

This course is intended primarily for on-line students interested in furthering physical and mental wellbeing through meaningful experiences in physical activities. In the course, students will choose approved activities and maintain a weekly log of these activities that will fulfill the required number of hours to pass the course. The activities will be monitored by the instructor using off-site monitor, software, student interaction, or other appropriate evaluation of activity.

Instructional Method: **Online**

KINA 2A	40210			Online	ONLINE	1	Karpel, M.	1/11 - 3/12		January 21	January 14
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KINA 2A	40211			Online	ONLINE	1	Karpel, M.	3/22 - 5/21		April 1	March 26
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KINESIOLOGY - LECTURE

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
KINESIOLOGY - LECTURE											
Introduction to Kinesiology (formerly PELC 2)											
An introduction to the philosophies and purposes of physical education. Examines the qualifications for various professional opportunities in the physical education field.											
<i>Instructional Method:</i> Online											
KINL 1	40214			Online	ONLINE	3	Karpel, M.	3/22 - 5/21		April 1	March 26
KINL 1	40532			Online	ONLINE	3	Karpel, M.	1/11 - 3/12		January 21	January 14
LOGISTICS/WAREHOUSING											
Introduction to Operations and Supply Chain Management											
This course is designed to explore logistical business process, managing quality, product development, services, operations planning and supply chain layout decisions in manufacturing. This exploration will expand the breadth of knowledge using simulation modeling and theory exploration.											
<i>Instructional Method:</i> Online											
WARE 51	40502			Online	ONLINE	3	Tatham, M.	1/11 - 3/12		January 21	January 14
Introduction to Warehousing and Distribution											
This course integrates the aspects of warehousing and distribution processes and techniques, including distribution planning and terminology. Topics addressed include transportation methods, Occupational Safety and Health Administration requirements, shipping, marketing, receiving procedures, and inventory control.											
<i>Instructional Method:</i> Online											
WARE 52	40503			Online	ONLINE	3	Tatham, M.	1/11 - 3/12		January 21	January 14
Material Handling											
This course is designed to explore various applications of automated material handling systems in the warehousing and distribution industry. Students will examine the dynamics of inventory movement as it pertains to the functionality and infrastructure of mechanized warehousing and distribution facilities.											
<i>Instructional Method:</i> Online											
WARE 54	40504			Online	ONLINE	3	O'Neal, J.	3/22 - 5/21		April 1	March 26
Introduction to Purchasing											
This course is designed to explore the basics of purchasing principles and management. A variety of topics will be addressed, including objectives and organizations, key purchasing variables, applications, and systems and controls.											
<i>Instructional Method:</i> Online											
WARE 59	40309			Online	ONLINE	3	O'Neal, J.	3/22 - 5/21		April 1	March 26

Subj/Crse	CRN KEY	Days	Begin & End Time	Campus	Room	Units	Instructor	Dates	Zero Cost Textbook	Last Official Day to Add	Last Day to Drop With Refund
MANAGEMENT											
Human Resource Management											
This course examines the role of the human resource professional as a strategic partner in managing today's organizations. Key functions such as recruitment, selection, development, appraisal, retention, compensation, and labor relations are examined. Recommended Preparation: ENGL 1A.											
Instructional Method: Online											
MGMT 3	40076			Online	ONLINE	3	Pasley, D.	3/22 - 5/21		April 1	March 26
Small Business Management											
This course is an introduction to business management techniques used by small businesses in the free enterprise system. This course focuses on the issues that concern a small business owner's process when developing product ideas, evaluating the market, planning the start-up and problems, structuring the organization, obtaining financing, purchasing inventory, finding a location, hiring personnel, as well as business laws, taxes, permits, and insurance. Students may be required to prepare of a simple business plan project at the end of the course. Recommended Preparation: ENGL 1A.											
Instructional Method: Online											
MGMT 7	40533			Online	ONLINE	3	Green, R.	3/22 - 5/21		April 1	March 26
MATHEMATICS											
Trigonometry											
This course offers a study of trigonometric functions and equations. Fundamental properties of functions, their graphs, and their inverses of trigonometric functions is covered. Solving triangles using the Law of Cosines and the Law of Sines. Verification of trigonometric identities, inverse trigonometric functions, half and multiple angles, vectors and their applications, parametric equations, polar coordinates and polar equations.											
Instructional Method: Online											
MATH 1	40059			Online	ONLINE	4	Duque, R.	1/11 - 5/21	Zero Cost Textbook	February 7	January 22
Bridge to College Success - Math 2											
This accelerated course prepares students for transfer-level Statistics. It covers core concepts from elementary algebra, intermediate algebra, and descriptive statistics. Topics include ratios, rates, and proportional reasoning; arithmetic reasoning using fractions, decimals and percents; evaluating expressions, solving equations, analyzing algebraic forms to understand statistical measures; use of linear, quadratic, absolute value, exponential, and logarithmic functions to model bivariate data; graphical and numerical descriptive statistics for quantitative and categorical data; probability; introduction to StatCrunch Software. This course is designed for students who intend to take transfer level statistics.											
Instructional Method: Online											
MATH 192	40273			Online	ONLINE	0	Duque, R.	3/22 - 5/21	Zero Cost Textbook	April 1	March 26
Linked Section: You must register in both MATH 192 (CRN 40273) and MATH 2 (CRN 40002) at once or you will receive a co-requisite error. Additional online material subscription of \$15.00 will be required.											
Bridge to College Success - Math 3											
This course is a non-credit support class for those students who are currently taking Math 3. This will also provide opportunity to review prerequisite math skills that are required for the course. In addition, students will be exposed to using different techniques in time management and study skills.											
Instructional Method: Online											
MATH 193	40276			Online	ONLINE	0	Ramos, N.	3/22 - 5/21		April 1	March 26
Linked Section: You must register in both MATH 193 (CRN 40276) and MATH 3 (CRN 40159) at once or you will receive a co-requisite error.											

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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MATHEMATICS

Bridge to College Success - Math 5

This course is a non-credit support class for those students who are currently taking Math 5. This will also provide opportunity to review prerequisite math skills that are required for the course. In addition, students will be exposed to using different techniques in time management and study skills.

Instructional Method: **Online**

MATH 195	40546		Online	ONLINE	0	Esperanza, P.	3/22 - 5/21		April 1	March 26
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Linked Section: You must register in both MATH 195 (CRN 40546) and MATH 5 (CRN 40063) at once or you will receive a co-requisite error.

Introduction to Statistics

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).

Instructional Method: **Online**

MATH 2	40002		Online	ONLINE ONLINE	4	Duque, R.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
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Linked Section: You must register in both MATH 192 (CRN 40273) and MATH 2 (CRN 40002) at once or you will receive a co-requisite error. Additional online material subscription of \$15.00 will be required.

MATH 2	40003		Online	ONLINE ONLINE	4	Yuan, C.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
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MATH 2	40060		Online	ONLINE ONLINE	4	Naim, R.	1/11 - 3/12		January 21	January 14
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MATH 2	40149		Online	ONLINE ONLINE	4	Vartanian, S.	1/11 - 5/21		February 7	January 22
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MATH 2	40160		Online	ONLINE ONLINE	4	Vartanian, S.	3/22 - 5/21		April 1	March 26
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MATH 2	40197		Online	ONLINE ONLINE	4	Vartanian, S.	3/22 - 5/21		April 1	March 26
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MATH 2	40198		Online	ONLINE ONLINE	4	Batarseh, A.	1/11 - 3/12		January 21	January 14
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<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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MATHEMATICS

Introduction to Statistics

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).

Instructional Method: **Online**

MATH 2	40274			Online	ONLINE ONLINE	4	Ramos, N.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
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Additional online material subscription of \$15.00 will be required.

College Algebra

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.

Instructional Method: **Online**

MATH 3	40061			Online	ONLINE	4	Lassonde, K.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
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MATH 3	40154			Online	ONLINE	4	Esperanza, P.	3/22 - 5/21		April 1	March 26
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MATH 3	40159			Online	ONLINE	4	Ramos, N.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
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Linked Section: You must register in both MATH 193 (CRN 40276) and MATH 3 (CRN 40159) at once or you will receive a co-requisite error.

MATH 3	40194			Online	ONLINE	4	Wilson, J.	3/22 - 5/21		April 1	March 26
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Calculus I

This course offers an introduction to the calculus of single variables. Topics covered include limits, using limits of functions to determine continuity, finding derivatives and integrals of functions, basic properties of derivatives and integrals, the relationship between derivatives and integrals as given by the Fundamental Theorem of Calculus, and application. Prerequisite: MATH 1 and MATH 3.

Instructional Method: **Online**

MATH 4A	40444			Online	ONLINE	4	Esperanza, P.	1/11 - 5/21		February 7	January 22
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Calculus II

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.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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MATHEMATICS

Calculus II

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.

Instructional Method: **Online**

MATH 4B	40443		Online	ONLINE	4	Duque, R.	1/11 - 5/21	<u>Zero Cost Textbook</u>	February 7	January 22
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College Math: For Liberal Arts Majors

This course is designed for liberal arts students and uses the concepts learned in algebra. It is a survey course of college mathematics with emphasis placed on the nature of mathematics, problem solving, and thinking patterns. Using and expanding upon the skills gained from algebra, this course offers the student an applications-oriented, problem-solving exploration into a variety of mathematical fields including portions of courses offered in sets and logic, algebraic expressions and inequalities, fundamental counting principles and probability, quantitative reasoning and statistics, and geometry. An important aspect of this course is to help students appreciate the value of mathematics in everyday life. Prerequisite: MATH 55 (or appropriate placement based on AB705 mandates).

Instructional Method: **Online**

MATH 5	40063		Online	ONLINE	3	Esperanza, P.	3/22 - 5/21		April 1	March 26
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Linked Section: You must register in both MATH 195 (CRN 40546) and MATH 5 (CRN 40063) at once or you will receive a co-requisite error.

MATH 5	40434		Online	ONLINE	3	Tran, D.	1/11 - 3/12		January 21	January 14
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Intermediate Algebra

This course reviews and extends the concepts of elementary algebra with problem solving skills. Topics that are reviewed and extended include linear and quadratic equations, factoring, polynomials, rational expressions, exponents, rational exponents including complex number, radicals, equations of lines, and systems of equations. New topics include graphs and their translations and reflections, functions, exponential and logarithmic functions, graphs of quadratic functions, conic sections, polynomial, rational, and absolute value inequalities.

Instructional Method: **Online**

MATH 55	40065		Online	ONLINE	4	Ramos, N.	3/22 - 5/21		April 1	March 26
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MATH 55	40272		Online	ONLINE	4	Esperanza, P.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
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MUSIC

Music Appreciation - Classical

A survey of art music in western civilization. Topics studied include, but are not limited to, elements of music, basic musical forms, music periods, styles, and the role of music and musicians in the western world.

Instructional Method: **Online**

MUSI 2	40072		Online	ONLINE	3	Callahan, M.	3/22 - 5/21		April 1	March 26
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<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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MUSIC

Music Appreciation - American Music

The survey of American music from the American Revolution to the present. It will cover presentation, history, and analysis of traditional, country, blues, rock, jazz, musical theatre, classical, and commercial popular music. It will include examination of historical and sociological influences on the music.

Instructional Method: **Online**

MUSI 3	40044			Online	ONLINE	3	Ross, A.	1/11 - 3/12		January 21	January 14
MUSI 3	40173			Online	ONLINE	3	Ross, A.	3/22 - 5/21		April 1	March 26

OCEANOGRAPHY

Introduction to the Marine Environment

This introductory course explores the major physical features of the world's oceans. Course topics include the formation and history of the ocean basins, ocean-atmosphere interactions, ocean circulation, and the dynamics of waves, tides, and coastlines. This course also reviews ocean chemical and sedimentation cycles as well as the general distribution of marine life. The ocean as a resource for people and human impact on the marine environment will also be considered. Class will include an instructional field trip.

Instructional Method: **Online**

OCEA 1	40078			Online	ONLINE	3	Tangumonkem, E.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
OCEA 1	40485			Online	ONLINE	3	Tangumonkem, E.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26

PHILOSOPHY

Introduction to Philosophy

This course is a survey of Western analytic philosophy: metaphysics and epistemology, ethics, philosophy of mind, philosophy of language, philosophy of religion, and philosophy of science. Students focus on primary texts to explore such concepts as knowledge of the world; moral behavior and the nature of morality; the relationship between minds and bodies; arguments for and against the existence of God; and how to employ logical analysis and empirical observations to evaluate arguments. Recommended Preparation: ENGL 1A.

Instructional Method: **Online**

PHIL 1	40014			Online	ONLINE	3	Endara, M.	1/11 - 3/12		January 21	January 14
PHIL 1	40080			Online	ONLINE	3	Rehfeld, A.	3/22 - 5/21		April 1	March 26

Critical Thinking

This course focuses on the study and development of critical reasoning and effective argumentation in the context of philosophy. Emphasis is placed on the application of philosophical critical thinking skills to clear, well - argued position papers and to the linguistic and logical analysis of the writings of others. Topics include introductions to inductive and deductive logic - including fallacies, cogency, validity, soundness. Prerequisite: ENGL 1A.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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PHILOSOPHY

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Instructional Method: **Online**

PHIL 1C	40536		Online	ONLINE	3	Rehfeld, A.	3/22 - 5/21		April 1	March 26
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Logic

This course is an introduction to the principles of sound reasoning with emphases on propositional logic, deduction, induction, language, and fallacies. Students will also learn how to practically apply the concepts of sound reasoning and critical thinking. Recommended Preparation: ENGL 1A.

Instructional Method: **Online**

PHIL 3	40534		Online	ONLINE	3	Rehfeld, A.	3/22 - 5/21		April 1	March 26
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World Religions (formerly also offered as RLGS 10)

An introduction to the major world religions: Hinduism, Buddhism, Judaism, Christianity, Islam, Confucianism, Taoism, and Shintoism. A critical study of the fundamental religious beliefs of each religion and an examination of their philosophical presuppositions. Recommended Preparation: ENGL 1A.

Instructional Method: **Online**

PHIL 5	40535		Online	ONLINE	3	Rehfeld, A.	1/11 - 3/12		January 21	January 14
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PHOTOGRAPHY

Introduction to Digital Photography

Introduction to the world of photography through the lens of the digital camera. Students will learn the basic operations of the digital camera, exposure metering, shutter speed, aperture, white balance, ISO, and on camera flash. With the use of different imaging software the student will learn to produce quality photographs. Students are required to provide their own digital camera.

Instructional Method: **Hybrid Interactive Video/Audio**

PHOT 1C	40092		Online	ONLINE TBA	4	Lytle, K.	1/11 - 5/21		February 7	January 22
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PHYSICAL SCIENCE

Introduction to the Earth Science

This is an inquiry-based Earth Science course that fulfills general education requirements, especially for students aspiring to become elementary school teachers. Students will develop a meaningful understanding of the geosphere, atmosphere, hydrosphere and solar system through lecture and laboratory activities. An earth-system approach will be emphasized to explain natural phenomenon that impact human societies. Focusing on the interactions between physical and chemical systems of the Earth such as the tectonic cycle, rock cycle, hydrologic cycle, weather and climate, the course will cover the breadth and depth of Earth Science topics covered in the Next Generation Science Standards (NGSS). Included with the class is a required field trip to acquaint the student with field examples of topics covered in the class.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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PHYSICAL SCIENCE

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Instructional Method: **Online**

PHSC 2	40537			Online	ONLINE ONLINE	4	Bulkley, S.	1/11 - 5/21		February 7	January 22
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This course uses software that is not compatible with some forms of assistive technology, including screen readers. Students who would like to register for this course and utilize assistive technology can request alternative assignments by contacting the ACCESS program. Please email access@barstow.edu as soon as you register for the course to avoid delays in receiving alternative assignments.

POLITICAL SCIENCE

American Political Institutions

This course is an introduction to the fundamental principles of the United States and California governments and politics, including their constitutions, political institutions and processes, and political actors. This course includes an examination of political behavior, political issues, and public policy.

Instructional Method: **Online**

POLI 1	40048			Online	ONLINE	3	Marietta, R.	1/11 - 3/12		January 21	January 14
POLI 1	40058			Online	ONLINE	3	Macias, J.	3/22 - 5/21		April 1	March 26
POLI 1	40069			Online	ONLINE	3	Macias, J.	3/22 - 5/21		April 1	March 26
POLI 1	40070			Online	ONLINE	3	Cranon-Charles, A.	1/11 - 3/12		January 21	January 14
POLI 1	40191			Online	ONLINE	3	Macias, J.	3/22 - 5/21		April 1	March 26
POLI 1	40543			Online	ONLINE	3	Lovato, V.	1/11 - 5/21		February 7	January 22

Comparative Government

This course covers fundamental political principles, structure, political parties, and public policies of major foreign governments. This course includes a comparison of Western democracies and past and present totalitarian systems.

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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POLITICAL SCIENCE

Comparative Government

This course covers fundamental political principles, structure, political parties, and public policies of major foreign governments. This course includes a comparison of Western democracies and past and present totalitarian systems.

Instructional Method: **Online**

POLI 2	40501			Online	ONLINE	3	Lenerville, J.	3/22 - 5/21		April 1	March 26
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PSYCHOLOGY

Introduction to Psychology

Introduction to Psychology includes the consideration of the development of psychology, sensation and perception, learning and memory, motivation, emotion, states of consciousness, stress, health and adjustment, abnormal behavior and psychotherapy, development, and sex roles and sexual behavior.

Instructional Method: **Online**

PSYC 1	40016			Online	ONLINE	3	Maxwell, D.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
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PSYC 1	40019			Online	ONLINE	3	Bento, G.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
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PSYC 1	40020			Online	ONLINE	3	Roberts, K.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
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PSYC 1	40029			Online	ONLINE	3	Bento, G.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
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PSYC 1	40119			Online	ONLINE	3	Garrison, E.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
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PSYC 1	40174			Online	ONLINE	3	Ulivarri, N.	3/22 - 5/21		April 1	March 26
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Human Sexuality (formerly also offered as BIOL 11)

Human sexuality content includes anatomy, physiology and behavior as related to sexual reproduction, including fertilization, pregnancy, child birth and birth control. Consideration will also be given to genetics, homosexuality, sexually transmitted infections, love and attachment, and sexual intercourse and response.

Instructional Method: **Online**

PSYC 11	40000			Online	ONLINE	3	Bento, G.	3/22 - 5/21		April 1	March 26
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PSYC 11	40004			Online	ONLINE	3	Rudd, V.	1/11 - 3/12		January 21	January 14
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<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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PSYCHOLOGY

Human Sexuality (formerly also offered as BIOL 11)

Human sexuality content includes anatomy, physiology and behavior as related to sexual reproduction, including fertilization, pregnancy, child birth and birth control. Consideration will also be given to genetics, homosexuality, sexually transmitted infections, love and attachment, and sexual intercourse and response.

Instructional Method: **Online**

PSYC 11	40102		Online	ONLINE	3	Bento, G.	3/22 - 5/21		April 1	March 26
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Research Methods in Psychology

This course surveys various research methods used in psychology with an emphasis on research design, experimental procedures, descriptive methods, instrumentation, and the collection, analysis, interpretation, and reporting of research data. Research design and methodology will be examined through peer-reviewed scholarly journal articles in a variety of fields of psychology. Prerequisite: PSYC 1 and MATH 2.

Instructional Method: **Online**

PSYC 12	40009		Online	ONLINE	3	Addison, T.	1/11 - 5/21		February 7	January 22
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Introduction to Drug and Alcohol Studies (formerly also offered as SOCI 14)

This course surveys the historical perspective of drug and alcohol abuse, as well as addiction's impact on the individual, the family, community, and society. The course covers terminology used in the study of drugs, addiction and alcoholism; and explore myths, images and stereotypes of substance abuse and substance users. Students will explore causes and effects of substance abuse and addiction. Students will also analyze the effectiveness and economic impact related to addiction prevention and treatment strategies.

Instructional Method: **Online**

PSYC 14	40010		Online	ONLINE	3	Faulkenberry, D.	1/11 - 3/12		January 21	January 14
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PSYC 14	40011		Online	ONLINE	3	Faulkenberry, D.	3/22 - 5/21		April 1	March 26
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Introduction to Guidance and Counseling (formerly also offered as SOCI 15)

This course provides an introduction to the whole guidance process, communication, functions, and various counseling theories. The course includes an integrated approach to basic helping skills utilizing theory, practice, and case application. Students develop the skills needed to establish effective, helping relationships.

Instructional Method: **Online**

PSYC 15	40012		Online	ONLINE	3	Brann, E.	3/22 - 5/21		April 1	March 26
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PSYC 15	40013		Online	ONLINE	3	Cornell, R.	1/11 - 3/12		January 21	January 14
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<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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PSYCHOLOGY

Developmental Psychology

The content of Human Development includes theories, research methods and findings concerning physical, cognitive, and psychosocial development of the individual from conception through the entire life span.

Instructional Method: **Online**

PSYC 2	40054			Online	ONLINE	3	Bento, G.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
PSYC 2	40055			Online	ONLINE	3	Roberts, K.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
PSYC 2	40199			Online	ONLINE	3	Garrison, E.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26

SOCIOLOGY

Introduction to Sociology

An introductory study of the basic concepts, theoretical approaches, and methods of sociology. Topics typically include the analysis and explanation of social structure, group dynamics, socialization and the self, social stratification, culture and diversity, social change and global dynamics. Course objectives include the ability to apply sociological ideas to everyday life. Recommended Preparation: Eligibility or concurrent enrollment in college level English.

Instructional Method: **Online**

SOCI 1	40039			Online	ONLINE	3	Macias, J.	1/11 - 3/12		January 21	January 14
SOCI 1	40046			Online	ONLINE	3	Macias, J.	3/22 - 5/21		April 1	March 26
SOCI 1	40047			Online	ONLINE	3	Howey, D.	1/11 - 3/12		January 21	January 14
SOCI 1	40079			Online	ONLINE	3	Howey, D.	3/22 - 5/21		April 1	March 26

Research in Social Sciences

This course surveys various research methods with an emphasis on research design, experimental procedures, descriptive methods, instrumentation, and the collection, analysis, interpretation and reporting of research data. Research design and methodology will be illustrated through a selected review of peer-reviewed scholarly journal articles in a variety of subfields in psychology/sociology. Recommended Preparation: Eligibility for ENGL 1A. Prerequisite: SOCI 1 and MATH 2.

Instructional Method: **Online**

SOCI 12	40538			Online	ONLINE	3	Howey, D.	3/22 - 5/21		April 1	March 26
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<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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SOCIOLOGY

Introduction to LGBTQ Studies

This introductory course examines a broad range of contemporary gay, lesbian, bisexual, transgender, and queer issues in various contexts including bio-medical, sociological, political, racial and sexual.

Instructional Method: **Online**

SOCI 22	40539		Online	ONLINE	3	Howey, D.	3/22 - 5/21		April 1	March 26
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Sociology of Modern Family Life (formerly also offered as PSYC 33)

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.

Instructional Method: **Online**

SOCI 3	40324		Online	ONLINE	3	Howey, D.	1/11 - 3/12		January 21	January 14
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Introduction to Race and Ethnicity

This course will provide a sociological analysis of race, ethnicity, and racism. Topics will include political, economic, religious, judicial, and familial organization of ethnic communities. The effects of the dominant society on these institutions will also be discussed. The course will emphasize recent socio-political movements as well as historical and contemporary patterns of interaction between various racial and ethnic groups.

Instructional Method: **Online**

SOCI 7	40467		Online	ONLINE	3	Howey, D.	1/11 - 3/12		January 21	January 14
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SPANISH

Beginning Spanish II

This course is a continuation of Spanish 1A and builds upon language acquisition in a cultural context through listening, speaking, reading and writing at the second semester level. Students will continue to interact with authentic language in a cultural context. Prerequisite: SPAN 1A.

Instructional Method: **Online**

SPAN 1B	40397		Online	ONLINE	4	Salamanca, C.	1/11 - 5/21		February 7	January 22
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STUDENT DEVELOPMENT

Career and Life Planning (formerly PSYC 5)

This course guides students through a decision-making process that will help them envision and plan for a future that is productive, achievable, and stimulating. The culmination of this process is the development of a career and educational plan that will create a pathway for students to reach their career and academic goals. Critical thinking skills will be utilized through a systematic approach to career development by examining values, interests, skills, life roles, personality types, personal self-management, decision-making and goal-setting throughout the life span.

Instructional Method: **Online**

SDEV 5	40564		Online	ONLINE	3	Lealofi, A.	1/11 - 3/12	<u>Zero Cost Textbook</u>	January 21	January 14
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<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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Instructional Method: **Online**

SDEV 5	40566		Online	ONLINE	3	Robles, A.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
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SDEV 5	40567		Online	ONLINE	3	Duarte, N.	3/22 - 5/21	<u>Zero Cost Textbook</u>	April 1	March 26
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THEATER ARTS

Theatre Appreciation

This survey course will foster a student's appreciation of theatre and the performing arts. The course examines the duties and responsibilities of the various creative artists such as director, actor, designers, and playwrights and the process of creating live theatre.

Instructional Method: **Online**

TART 3	40083		Online	ONLINE	3	Ross, A.	3/22 - 5/21		April 1	March 26
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Beginning Contemporary Theatre Production

This course provides an introduction to instruction and supervised participation in theatre rehearsal and performance. This class provides an opportunity for students to perform in their first role in a Barstow Community College production as a member of the cast and/or crew. It includes applied study and the basic practice of script analysis, acting techniques, technical theatre, and other performance skills through preparation and performance of a contemporary, non-musical theatre production. All actors are required to audition for roles.

Instructional Method: **Online**

TART 5A	40588		Online	ONLINE	1	Ross, A.	3/22 - 5/21		April 1	March 26
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Intermediate Contemporary Theatre Production

This course provides instruction and supervised participation in theatre rehearsal and performance. This class provides an opportunity for students to perform in their second role in a Barstow Community College production as a member of the cast and/or crew. Students investigate more sophisticated performance techniques as well as develop intermediate approaches to script analysis and characterization. All actors are required to audition for roles. Limitation on Enrollment: Audition/Interview. Prerequisite: TART 5.

Instructional Method: **Online**

TART 5B	40584		Online	ONLINE	1	Ross, A.	3/22 - 5/21		April 1	March 26
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Subj/Crse	CRN KEY	Days	Begin & End Time	Campus	Room	Units	Instructor	Dates	Zero Cost Textbook	Last Official Day to Add	Last Day to Drop With Refund
THEATER ARTS											
Advanced Contemporary Theatre Production I											
This course provides instruction and supervised participation in theatre rehearsal and performance. This class provides an opportunity for students to perform in their third role in a Barstow Community College production as a member of the cast and/or crew. Students apply increasingly advanced rehearsal and performance techniques to the study of characters with great complexity and depth. All actors are required to audition for roles. Limitation on Enrollment: Audition/Interview. Prerequisite: TART 5B.											
Instructional Method: Online											
TART 5C	40585			Online	ONLINE	1	Ross, A.	3/22 - 5/21		April 1	March 26
Advanced Contemporary Theatre Production II											
This course provides instruction and supervised participation in theatre rehearsal and performance. This class provides an opportunity for students to perform in their fourth role in a Barstow Community College production as a member of the cast and/or crew. Students apply an advanced skill set of acting techniques toward rehearsal and performance, and will be expected to chart in detail with critical analysis of the process from page to stage. This will include background research of their character, the playwright, reviews, and previous productions. All actors are required to audition for roles. Limitation on Enrollment: Audition/Interview. Prerequisite: TART 5C.											
Instructional Method: Online											
TART 5D	40586			Online	ONLINE	1	Ross, A.	3/22 - 5/21		April 1	March 26
WELDING											
Introduction to Welding											
This course will cover the materials, equipment, and safety practices utilized in oxyacetylene welding and cutting along with soldering and brazing. Recommended Preparation: ENGL 1A.											
Instructional Method: Hybrid											
WELD 50A	40572	M	1800 2050	Barstow	TBD ONLINE	3	Jeffers, C.	1/11 - 5/21		February 7	January 22
Please be aware students will be required to attend an on campus lab assessment.											
Flux Cored Arc Welding (FCAW)											
This course will cover special welding processes and applications with the use of flux cored arc welding (FCAW) equipment. Using safe practices, students will operate welding equipment to produce acceptable GMAW welds in all positions and prepare students to obtain industry recognized certifications. Prerequisites: WELD 50A and WELD 56.											
Instructional Method: Hybrid											
WELD 54B	40595	W	1800 2050	Barstow	TBD ONLINE	3	Packer, B.	1/11 - 5/21		February 7	January 22
Please be aware students will be required to attend an on campus lab assessment.											
Gas Tungsten Arc Welding - Ferrous											
This course will cover special welding processes and applications with the use of gas tungsten arc welding on ferrous metals and position welding. Prerequisites: WELD 50A and WELD 56.											
Instructional Method: Hybrid											
WELD 55A	40603			Online	ONLINE TBD	3	Jeffers, C.	3/22 - 5/21		April 1	March 26
Please be aware students will be required to attend an on campus lab assessment. Days and times will be determined when the section begins.											

<i>Subj/Crse</i>	<i>CRN KEY</i>	<i>Days</i>	<i>Begin & End Time</i>	<i>Campus</i>	<i>Room</i>	<i>Units</i>	<i>Instructor</i>	<i>Dates</i>	<i>Zero Cost Textbook</i>	<i>Last Official Day to Add</i>	<i>Last Day to Drop With Refund</i>
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WELDING

Gas Tungsten Arc Welding - Non-Ferrous

This course will cover special welding processes and applications with the use of gas tungsten arc welding on non-ferrous metals and position welding. Prerequisites: WELD 50A and WELD 56.

Instructional Method: **Hybrid**

WELD 55B	40561			Online	ONLINE TBD	3	Packer, B.	3/22 - 5/21		April 1	March 26
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Please be aware students will be required to attend an on campus lab assessment. Days and times will be determined when the section begins.

Blueprint Reading (Metal Trades)

This course teaches basic techniques of interpreting and using engineering drawings or prints used in the metal trades. It also introduces visualization of objects, sectional drawings, orthographic and isometric projections, symbols, scales and practices used in blueprints for the metal trades.

Instructional Method: **Hybrid**

WELD 56	40460			Online	ONLINE ONLINE	3	O'Neal, J.	1/11 - 5/21		February 7	January 22
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Please be aware students will be required to attend an on campus lab assessment. Days and times will be determined when the section begins.

Welding Fabrication using Ferrous Metals

This course is designed for the accomplished welding student to gain welding fabrication and repair welding principles and skills. Also, it introduces the construction of complex and useful projects using ferrous metals. Prerequisites: WELD 52 or WELD 54 (A or B), or WELD 55A.

Instructional Method: **Hybrid**

WELD 57A	40236			Online	TBD ONLINE	3	O'Neal, J.	3/22 - 5/21		April 1	March 26
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Please be aware students will be required to attend an on campus lab assessment. Days and times will be determined when the section begins.

Welding Fabrication using Non-Ferrous Metals

Designed for the accomplished welding student to gain welding fabrication and repair welding principles and skills. Also, construction of complex and useful projects using non-ferrous metals. Prerequisites: WELD 52 or WELD 54 (A or B) or WELD 55B.

Instructional Method: **Hybrid**

WELD 57B	40604			Online	ONLINE TBD	3	O'Neal, J.	3/22 - 5/21		April 1	March 26
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Please be aware students will be required to attend an on campus lab assessment. Days and times will be determined when the section begins.