

BARSTOW COMMUNITY COLLEGE

ASSOCIATE DEGREE REQUIREMENTS (OCCUPATIONAL)

This degree option is designed for the non-transfer, occupational major only. Under this plan, a student may earn an Associate of Science degree in one of the following majors:

Accounting, Administration of Justice, Allied Health, Automotive Technology, Business, Child Development, Computer Science, Cosmetology, Electronics Technology, Fire Technology, Management, Medical Assistant, Photography, Residential Electrical, or Welding

For the Associate of Science degree in an occupational field of study, students must satisfactorily complete all required courses within the major along with the general education requirements listed below. Refer to pages 45-49 for a list of required courses for each occupational major. General education course work can be used to satisfy the units of the major.

Natural Sciences		3 units
Complete one course	ANTH 3; ASTR 1,1L; BIOL 1-5, 7-8, 10-11; CHEM 1, 2A, 2B; GEOG 1; GEOL 1L-5; OCEA 1; PHSC 1, 2; PHYS 1, 2A, 2B, 4A, 4B	
Social and Behavioral Sciences		3 units
Complete one course	ADJU 1, 8; AHLT 70, 72-75 ANTH 1, 4; ARCH 1, 5, 10; BADM 1, 2, 5; ECON 1, 2, 5; ETHN 1, 2, 4; GEOG 2; HIST 1A, 1B, 2A, 2B, 3-5, 7, 8A, 8B, 12, 50; POLI 1, 2; PSYC 1-6, 11, 14-15, 33; SOCI 1-4, 6, 8, 14-15	
Humanities		3 units
Complete one course	ARTS 1-3, 7, 9, 10, 16-19; ENGL 1B, 2-6; 11, HIST 1A, 1B, 8A, 8B; HUMA 1-6; MUSI 2-7, 12ABC; PHIL 1-6, 8; PHOT 1A, 1B, 1C, 2A, 2B, 2C, 9; RLGS 1, 5, 10; SPAN 1A, 1B, 2A, 2B, 10; TART 1-6, 10, 11, 12, 13	
Activity		(min. 2 units)
Complete one area	Any 2 PE activity courses; or 1 PE activity course and AHLT 51 or AHLT 53 and AHLT 63 or AHLT 64; or 1 PE activity course and AHLT 65 or valid/current American Heart Association or American Health and Safety Institute CPR AND American Red Cross or American Health and Safety Institute First Aid Card	

American Institutions		3 units
Complete one course	POLI 1, HIST 2A, HIST 2B	
Communication (requires C grade)		3 units
Complete one course	SPEECH 1, 2, 3, 4	
Computer Literacy		0-1 unit
Complete one requirement	<ol style="list-style-type: none"> Any one or more unit course in CBIS Equivalency credit through ACE, PŌNSI or other national certification program(s); Credit by examination Demonstrated ability equivalent to any CBIS course 	
English (requires C grade)		3 units
Complete one course	ENGL 1A	
Mathematics (requires C grade)		3-4 units
Complete one course	DRAF/ELEC 60; MATH 55, 1-3, 4A, 4B, 4C, 5	
Orientation		0-3 units
Complete one course	ORIE 1 or PSYC 5 (Waiverable with official transcript transferring 15+ semester units)	

See *Degree Requirements* for additional requirements that must be met for all Barstow Community College degree options.

BARSTOW COMMUNITY COLLEGE

ASSOCIATE DEGREE REQUIREMENTS (OCCUPATIONAL)

ASSOCIATE OF SCIENCE, ACCOUNTING

Prepares students for entry level positions in industry and service occupations, such as payroll, accounts receivable, accounts payable, and management.

Major Core Requirements (9 units)

ACCT 1A Principles of Accounting	3
ACCT 1B Principles of Accounting	3
ACCT 4 Managerial Accounting	3

Major Elective Requirements (12 units)

Select at least 12 additional units from the following courses

ACCT 5, 68; BADM 1, 19; CBIS 1;
ECON 1, 2; CBIS 40

Minimum Units Required in Major	21
General Education Coursework	27
Electives	<u>12</u>
Total Units Required	60

ASSOCIATE OF SCIENCE, ADMINISTRATION OF JUSTICE

Designed for those who wish to enter the law enforcement field and related employment or provide in-service training for employed officers.

Major Core Requirements (9 units)

ADJU 1 Intro to the Administration of Justice	3
ADJU 2 Principles and Procedures of The Justice System	3
ADJU 3 Concepts of Criminal Law	3

Select One of the Two Major Options Listed Below

Option I - Law Enforcement (12 units)

Select classes from the list below for a total of 12 units

ADJU 4 Legal Aspects of Evidence	3
ADJU 5 Community Relations of the Justice System	3
ADJU 6 Concepts of Enforcement Services	3
ADJU 7 Principles of Investigation	3
ADJU 8 Juvenile Crime and Delinquency	3

Option II - Corrections (12 units)

Select classes from the list below for a total of 12 units

ADJU 14 Introduction to Corrections	3
ADJU 15 Legal Aspects of Corrections	3
ADJU 16 Control and Supervision in Corrections	3
ADJU 17 Correctional Interviewing and Counseling	3
ADJU 18 Fundamentals of Probation and Parole	3

Minimum Units Required in Major	21
General Education Coursework	27
Electives	<u>12</u>
Total Units Required	60

ASSOCIATE OF SCIENCE, ALLIED HEALTH

Designed to prepare students to enter the EMT, Nursing Assistant, or Administrative Medical Assistant field. Students completing the EMT course will qualify for the National Registry of EMT's Testing/Certification which is required by the State of California and the Inland Counties Emergency Medical Agency (ICEMA).

Major Core Requirements (10 units)

AHLT 51 Standard First Aid and Personal Safety	.5
AHLT 52 Medical Terminology	3
AHLT 60 Medical Insurance	3
AHLT 63 Basic CPR	.5
HEAL 1 Health Education	3

Select One of the Three Major Options Listed Below:

Option I – EMT (2-5 units)

Select one class from list below for 2-5 units toward the major

AHLT 55A EMT Basic (EMSA Certification)	5
AHLT 55B EMT Basic (National Registry)	5
AHLT 62A EMT Basic Refresher (EMSA Certification)	2
AHLT 62B EMT Basic Refresher (National Registry)	2

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Option II – Nursing Assistant (10 units)

AHLT 54 Nursing Assistant	5.5
AHLT 56 Home Health Aid	1.5
HEAL 2 / HOME 2 Nutrition	3

Option III – Administrative Medical Assistant (9 units)

AHLT 61A Medical Office procedures Front Office	3
AHLT 66 Medical Coding	3
AHLT 77 Medical Transcription	3

Major Elective Requirements (1-8 units)

In addition to the courses listed above for the Core and Option requirements, students must take additional AHLT courses to be selected from the following list to bring the total number of units to at least 20 units.

AHLT 54, 55A, 55B, 56, 57, 61A, 61B, 62A, 62B, 66, 70, 77; HEAL 2; HOME 2

Minimum Units Required in Major	20
General Education Coursework	27
Electives	<u>13</u>
Total Units Required	60

ASSOCIATE OF SCIENCE, AUTOMOTIVE TECHNOLOGY

Designed to teach the student entry level knowledge and understanding of the tools, techniques, and procedures used in automotive repair.

Major Core Requirements (20 units)

AUTO 51A Intro to Automotive Tech	4
AUTO 52 Automotive Electrical Systems	4
AUTO 53 Automatic Transmissions and Transaxles	4
AUTO 54 Automotive Brakes	4
AUTO 55 Suspension and Steering	4

Minimum Units Required in Major	20
General Education Coursework	27
Electives	<u>13</u>
Total Units Required	60

ASSOCIATE OF SCIENCE, BUSINESS

Designed to provide the student with the knowledge and entry level skills common to business and public sector requirements.

Major Core Requirements (9 units)

ACCT 1A Principles of Accounting	3
BADM 1 Business Law I	3
ECON 1 Principles of Economics (MACRO)	3

Select One of the Two Major Options Listed Below

Option I (12.5 units)

CBIS 40 Spreadsheet Applications	4
CBIS 41 Beginning Word Processing	4
CBIS 43 Presentation Applications and Media	3
CBIS 74 Microsoft Outlook	1.5

Option II (12 units)

ACCT 1B Principles of Accounting	3
BADM 2 Business Law II	3
BADM 6 Business Communications	3
ECON 2 Principles of Economics (MICRO)	3

Units Required in Major	21-21.5
General Education Coursework	27
Electives	<u>11.5 - 12</u>
Total Units Required	60

ASSOCIATE OF SCIENCE, CHILD DEVELOPMENT

Designed to equip the student with the entry level knowledge and skills needed for the person who chooses to enter the field of child care and/or for partial preparation for those wishing to teach at the preschool level.

Major Core Requirements (19 units)

CHLD/PSYC 4 Child Growth and Development	3
CHLD/SOCI 6 Child, Family, Community	3
CHLD 10 Intro to Early Childhood Programs	3
CHLD 11A/B Principles and Practices in ECE	4
CHLD 12A/B Creative Activities for ECE	3
CHLD 14 Child Health, Safety, and Nutrition	3

Major Elective Requirements (3 units)

Select one course from the list below:

CHLD 15, 16, 17	3
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Minimum Units Required in Major	22
General Education Requirements	27
Electives	<u>11</u>
Total Units Required	60

**ASSOCIATE OF SCIENCE,
COMPUTER SCIENCE**

Major Core Requirements

CBIS 1	Computer Concepts	3
.....	<i>And Either</i>	
CBIS 10	Computer Architecture	3
.....	<i>or</i>	
CBIS 51	A+ Certification Preparation	4
CBIS 13	Management Information Systems	3
.....		
CBIS 19	Systems Analysis and Design	3
.....	<i>OR (for option III only)</i>	
CBIS 40	Spreadsheet Applications	4
CBIS 41	Beginning Word Processing	4
CBIS 43	Presentation Applications and Media	3

Option I (MIS)

Select three courses from the following:

CBIS 15	Information Networking	3
CBIS 17	Database Design and Management: Microsoft Access	3
.....		
CBIS 22A	Business Operating Software, Using UNIX	3
.....		
CBIS 22C	Windows Server	1.5
CBIS 29A	Introduction to Writing Web Pages	3
.....		
CBIS 29B	Advanced Web Development	3
CBIS 30A	Networking Technologies – CISCO Emphasis	4
.....		
CBIS 30B	Networking Technologies – CISCO Emphasis II	4
.....		
CBIS 30C	Networking Technologies – CISCO Emphasis III	4
.....		
CBIS 30D	Networking Technology – CISCO Emphasis IV	4
.....		
CBIS 51	A+ Certification Preparation	4

Option II (Programming)

Select three courses from the following:

CBIS 3	Programming in Visual Basic	3
CBIS 6	Programming in Java	3
CBIS 33	Computer Science 1 with C++	3
CBIS 29B	Advanced Web Development	3

Option III (Business Information Systems)

Select at least eight units from the following courses:

CBIS 42	Advanced Word Processing	4
CBIS 60	Beginning Keyboarding	1.5

CBIS 61	Skill Building and Document Processing	1.5
CBIS 64	Machine Transcription	3
CBIS 65	Machine Calculations	1.5
CBIS 66	Office Procedures	3
CBIS 67	Records Management	2
CBIS 74	Microsoft Outlook	1.5
CBIS 77	Medical Transcription	3

Or any CBIS course in the Office Services or Administrative Assistant Certificate.

Minimum Units Required in Major	20
General Education Requirements	27
Electives	13
Total Units Required	60

**ASSOCIATE OF SCIENCE,
COSMETOLOGY**

Designed to provide students with the knowledge and skills to pass the state test and obtain a License in Cosmetology.

Major Core Requirements (42 units)

COSM 50A	Beginning Cosmetology	6
COSM 50B	Beginning Cosmetology	6
COSM 50C	Beginning Cosmetology	6
COSM 51A	Intermediate Cosmetology	6
COSM 51B	Intermediate Cosmetology	6
COSM 51C	Intermediate Cosmetology	6
COSM 52	Advanced Cosmetology	6

Minimum Units Required in Major	42
General Education Requirements	27
Total Units Required	69



**ASSOCIATE OF SCIENCE,
ELECTRONICS TECHNOLOGY**

Designed for students who wish to obtain the entry level knowledge expected of one entering the field of manufacture or repair of electronic equipment.

Major Core Requirements (20 units)

ELEC 51	Direct Current Circuits and Network Analysis	4
ELEC 52	Alternating Current Circuits and Network Analysis	4
ELEC 53	Solid State Devices	4
ELEC 54	Communications Systems	4
ELEC 56	Digital Electronics	4

Minimum Units Required in Major	20
General Education Requirements	27
Electives	<u>13</u>
Total Units Required	60

**ASSOCIATE OF SCIENCE,
FIRE TECHNOLOGY**

Major Core Requirements (30 units)

FIRE 1	Fire Protection Organization	3
FIRE 2	Fire Prevention Technology	3
FIRE 3	Fire Behavior and Combustion	3
FIRE 4	Building Construction for Fire Protection	3
FIRE 5	Fire Protection Equipment and Systems	3
FIRE 6	Fire Hydraulics	3
FIRE 7	Wildland Fire Fighting Essentials	3
FIRE 19	Hazardous Materials Chemistry I	3
FIRE 56A	Occupational Safety and Health for the Fire Service	3
FIRE 56B	Legal Aspects of the Fire Service	3

Minimum Units Required in Major	30
General Education Requirements	27
Electives	<u>3</u>
Total Units Required	60

**ASSOCIATE OF SCIENCE,
MANAGEMENT**

Prepares students with entry level knowledge in management concepts and procedures. Student will gain understanding of management terms, functional applications, and communication skills.

Major Core Requirements (12 units)

MGMT 1	Introduction to Management	3
MGMT 3	Human Resource Management	3
MGMT 5	Organization and Management	3
CBIS 13	Management Information Systems	3

Major Elective Requirements (9 units)

Select 9 additional units from the following courses
ACCT 1A, 1B, 4; BADM 1, 2, 6, 19; ECON 1, 2; MGMT 4, 6, 60; CBIS 40, 41, 42, 43, 66, 67

Minimum Units Required in Major	21
General Education Requirements	27
Electives	<u>12</u>
Total Units Required	60

**ASSOCIATE OF SCIENCE,
MEDICAL ASSISTANT**

Designed to prepare students for employment as medical assistants for physicians, clinics, and hospital business offices.

Major Core Requirements (21-22 units)

AHLT 52	Medical Terminology	3
AHLT 57	Pharmacology	3
AHLT 60	Medical Insurance	3
AHLT 61A	Medical Office Procedures – Front Office	3
AHLT 61B	Medical Office Procedures – Back Office	3
AHLT 61C	Medical Office Procedures – Practicum	2
AHLT 51	Standard First Aid and Personal Safety	.5
AHLT 63	Basic CPR	.5
BIOL 2	Concepts in Biology	4

OR

BIOL 10	Introduction to Biology	3
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Minimum Units Required in Major	21-22
General Education Requirements	27
Electives	<u>11-12</u>
Total Units Required	60

**ASSOCIATE OF SCIENCE,
PHOTOGRAPHY**

Provides the student with a broad base of technical skills in photography with additional emphasis on visual communication. It prepares students to enter the photographic field in a variety of positions such as production printer, studio photographer, photo lab technician, and free lance photographer.

Major Core Requirements (20 units)

PHOT 1A Introduction to Photography	4
PHOT 1B Introduction to Photography	4
PHOT 1C Introduction to Digital Photography	4
PHOT 2A Advanced Photography	4
PHOT 2B Advanced Photography	4

Minimum Units Required in Major	20
General Education Requirements	27
Electives	13
Total Units Required	60

**ASSOCIATE OF SCIENCE,
RESIDENTIAL ELECTRICAL**

Provides entry-level marketable skills that give the student a basic understanding of terminology, tools, National Electric Code (NEC), and blueprints used in residential electrical wiring. Students will have fundamental skills required to gain employment in residential electrical trades.

Major Core Requirements (27.5 units)

BCTT 50A Basic Construction Safety and Rigging	2
BCTT 50B Intro to Hand and Power Tools	1
BCTT 50C Intro to Blueprint Reading	1
WKFC 50D Basic Communication and Employment Skills	2
BCTT 50E Construction Technology Core Performance Testing	.5
BCTT 51 Construction Quantitative Skills	3
BCTT 52A Blueprint Reading Fundamentals	3
BCTT 52B Residential Blueprint Reading	3
ELCT 70A Electrical Safety and Hand Bending	1
ELCT 70B Fasteners and Electrical Theory	1
ELCT 70C Electrical Test Equipment, NEC, Raceways, Boxes, Fittings, and Conductors	2

ELCT 70D Intro to Electrical Blueprints and Residential And Commercial Wiring	1
ELCT 70E Electrical Level One Performance Testing	1
ELCT 72A Alternating Current, Motors, and Grounding	2
ELCT 72B Grounding, Conduit, Boxes, Fittings, and Conductor Installations	1
ELCT 72C Cable Tray, Conductor Terminations, Splices, and Installation of Electric Services	1
ELCT 72D Circuit Breakers, Fuses, Contactors, Relays, and Electrical Lighting	1
ELCT 72E Electrical Level Two Performance Testing	2

Minimum Units Required in Major	28.5
General Education Requirements	27
Electives	4.5
Total Units Required	60

**ASSOCIATE OF SCIENCE,
WELDING**

Designed to provide the student with the knowledge and basic skills common to the welding trade.

Major Core Requirements (21 units)

WELD 50 Oxyacetylene Welding and Cutting	3
WELD 51 Shielded Metal ARC Welding	3
WELD 52 Position Welding (ARC Welding)	3
WELD 53 Soldering, Brazing, and Braze Welding	3
WELD 54 Gas Metal-ARC Welding	3
WELD 55 Gas Tungsten-ARC Welding	3
WELD 56 Blueprint Reading (Metal Trades)	3

Minimum Units Required in Major	21
General Education Requirements	27
Electives	12
Total Units Required	60