

Table of Contents

This catalog supplement is provided for your convenience to give you a brief review of the catalog course and program changes which took place after the 2012-13 catalog was published.

COURSES

CORRECTIONS:

ACDV B66 Student Success (1-3 units)

Covers the development of successful personal behaviors; interpersonal skills development, effective listening and note taking, time management, textbook reading, math computation, and test taking skills necessary for success in connected core courses. **Recommended:** Concurrent enrollment in ACDV B280 or B281. **Hours:** 18 lect for each unit. **Repeat:** 3. **Offered:** S, F. **CCS:** Precollegiate - Basic Skills. **Not Transferable:** Not Degree Applicable.

AGRI B49 Agriculture Leadership Training (2 units)

Agriculture leadership training through the application of individual and group leadership techniques. Requires participation as: an Agriculture Ambassador team member in the promotion and understanding of California agriculture, participation in college recruitment activities (including giving recruitment presentations at off campus sites), hosting prospective student groups for on-campus visitations, and sponsoring recruitment activities for the local Agriculture industry. **Hours:** 18 lect, 54 lab. **Repeat:** 1. **Offered:** SS, F. **CCS:** Occupational Education. **Transferable:** CSU and private colleges. **Note:** Elective credit only. Field trips required.

ANSC B83 Introduction to Veterinary Technology

(4 units)

Introductory course designed to orient and instruct students in knowledge required for success in advanced veterinary technology courses. Topics include: anatomy and physiology of domestic animals (Integumentary, cardiovascular, respiratory, reproductive, gastrointestinal, and neurological systems), nutrition, pharmacology, basics of chemistry, biology, microbiology, (including cellular anatomy/physiology), genetics and heredity, and career opportunities. Medical terminology, regulations, office management and record keeping skills are also covered, as they pertain to working in a veterinary practice. **Hours:** 72 lect. **Offered:** F. **CCS:** Occupational Education. **Not Transferable:** Associate Degree only. Field trips may be required.

ANSC B84 Small Animal Diseases (1.5 units)

Presents knowledge of diseases in small domestic animals, including prevention and treatment programs. Includes instruction in physical diagnosis and discussion of tests and procedures needed for proper diagnosis that the technician uses to assist veterinarian. Also covers animal husbandry

procedures relating to disease prevention. Disease entities to be taught include: mechanical, genetic, infectious, nutritional, endocrine, and metabolic conditions. **Prerequisite:** ANSC B80 with a grade of "C" or better. **Hours:** 27 lect. **Offered:** F. **CCS:** Occupational Education. **Not Transferable:** Associate Degree only.

ARCH B33 Architectural Computer Practice (3 units)

This course uses computer applications as a communication instrument in the design development and construction document phases of a light commercial project. Theory and application of laws and codes as they affect such buildings are studied. **Prerequisite:** ARCH B30 with a grade of "C" or better. **Hours:** 27 lect, 81 lab. **Offered:** S. **CCS:** Occupational Education. **Transferable:** CSU and private colleges. Fields trips required.

CHEM B2a Introductory General Chemistry (4 units)

Course covers the principles and applications of general college chemistry. It is designed for liberal arts, physical education and some baccalaureate nursing majors. Recommended also for students who need additional background for the more intensive course, CHEM B1a. **Prerequisite:** MATH BA with a grade of "C" or better and Reading - 1 level prior to transfer. **Recommended:** Math prerequisite accomplished within the two previous years. **Hours:** 54 lect, 54 lab. **CCS:** Liberal Arts and Science. **Transferable:** UC, CSU and private colleges. **Note:** Not open to students with credit in CHEM B1A. BC GE B.1; CSU GE B.1, B.3; IGETC 5A.

CNST B50a Residential Construction (7 units)

Intended to provide students with an overview of the construction profession. Various aspects of residential construction from site preparation through framing phases will be studied and performed. Special interest will be on construction safety, the initial phases of construction & investigation of emerging building trends & techniques. Finish carpentry & plumbing phases and techniques will also be introduced. **Recommended:** Reading - 1 level prior to transfer. **Hours:** 54 lect, 216 lab. **Offered:** F. **CCS:** Occupational Education. **Not Transferable:** Associate Degree only.

CNST B50b Residential Construction (7 units)

Intended to provide students with an overview of the construction profession. Various aspects of residential construction from post rough framing to final completion will be studied and performed. Special interest will be on construction safety, the finish carpentry & electrical phases of construction & investigation of emerging building trends & techniques. Initial phases and techniques will be reviewed. **Recommended:** Reading - 1 level prior to transfer. **Hours:** 54 lect, 216 lab. **Offered:** S. **CCS:** Occupational Education. **Not**

Transferable: Associate Degree only.

ELET B1 Basic Electronics (DC and AC) (4 units)

Introduction to electricity and electronics including basic components, electronic circuit calculations, basic electronic test equipment use, electrical measurement, relays and ladder diagrams, alternating current (AC) circuits, and electronic schematic diagrams. **Recommended:** Reading - 1 level prior to transfer. **Hours:** 54 lect, 54 lab. **Offered:** S. **CCS:** Occupational Education. **Transferable:** CSU and private colleges.

ELET B4 Computer Integrated Manufacturing (3 units)

Introduction to industrial automation technologies and the procedures utilized when troubleshooting automated control systems. Topics include programmable logic controllers (PLC), machine control, industrial robots, barcode readers, material handling systems, and Ethernet communications.

Prerequisite: ELET B5 with a grade of "C" or better.

Recommended: Reading - 1 level prior to transfer. **Hours:** 36 lect, 54 lab. **Offered:** S. **CCS:** Occupational Education.

Transferable: CSU and private colleges. **Note:** Not open to students who have completed MFGT B4 or MFGT B50.

ELET B6 Analog and Digital Electronics (3 units)

Applications of analog and digital electronic circuits and systems. Content includes: semiconductor components, analog circuits (power supplies, amplifiers, and oscillators), digital electronic circuits (logic gates, sequential logic circuits), digital signal processing (A/D and D/A conversion).

Prerequisite: ELET B1 with a grade of "C" or better.

Recommended: Reading - 1 level prior to transfer. **Hours:** 36 lect, 54 lab. **CCS:** Occupational Education. **Transferable:**

CSU and private colleges. **Note:** Not open to students who have taken ELET B9 and ELET B12.

ELET B56 Instrumentation and Process Control

(3 units)

Basic principles of process instrumentation and control. Topics include: level, pressure, flow, and level measurement, final control elements, piping and instrument diagrams and tags, PID controller programming, and basic control algorithms. **Prerequisite:** ELET B1 with a grade of "C" or better. **Recommended:** Reading - 1 level prior to transfer.

Hours: 36 lect, 54 lab. **CCS:** Occupational Education. **Not Transferable:** Associate Degree only.

ELET B61 Telecommunications (3 units)

Elements of residential and commercial phone systems, electronic communications "basics," transmission line characteristics, fiber-optic cabling and systems, and other non radio-based communication topics will be covered in this course. **Prerequisite:** ELET B1 with a grade of "C" or better.

Recommended: Reading - 1 level prior to transfer. **Hours:** 36 lect, 54 lab. **Offered:** S. **CCS:** Occupational Education.

Not Transferable: Associate Degree only.

ELET B62 Radio Communications (3 units)

Introduction to the basic circuits and systems used for RF communications systems, including microwave and satellite communications, two-way radio systems, AM, FM, NBFM, and SSB modulation, antenna systems, and transmission lines. **Prerequisite:** ELET B1 with a grade of "C" or better. **Recommended:** Reading - 1 level prior to transfer.

Hours: 36 lect, 54 lab. **CCS:** Occupational Education. **Not Transferable:** Associate Degree only.

ELET B70 Mechanical Systems (3 units)

Introduction to machinery and machining processes, essential elements of mechanical systems, mechanical drives (gears, belts and pulleys, clutches), mechanical hardware, bushings, bearings, lubrication systems, basic properties of materials, hydraulics and pneumatics, preventive maintenance, basic hand and power tools, and basic precision dimensional measurement. **Recommended:** Reading - 1 level prior to transfer. **Hours:** 36 lect, 54 lab. **CCS:** Occupational Education. **Not Transferable:** Associate Degree only.

EMTC B50r Emergency Medical Technician 1 Recertification Preparation (1 unit)

A review of material in EMTC B50 with updates on EMT-1 issues and new material or skill techniques. An approved refresher course that follows state regulations and leads to a recertification completion certificate. Required to continue practice of pre-hospital emergency care. **Prerequisite:** Must possess current EMT-1 certification or certification that has expired in less than one year. **Hours:** 24. **Offered:** S. **Repeat:** Unlimited; legally mandated training as necessary for state EMS regulations. **Offered:** S. **CCS:** Occupational Education. **Not Transferable:** Associate Degree only.

ENSL B71ab Basic Listening and Speaking I (4 units)

Guided practice for improvement of pronunciation, rhythm, stress, and intonation patterns and aural comprehension of non-native English speakers. **Recommended:** Placement based on the Bakersfield College English as a Second Language Placement Test. **Hours:** 72 lect/disc. **Repeat:** 1. **Offered:** F, S, SS. **CCS:** Precollegiate - basic skills. **Not Transferable:** Not degree applicable.

FIRE B7 Building Construction for Fire Protection (3 units)

The study of the components of building construction that relate to fire/life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, pre-planning fire operations, and operating at fires/collapse emergencies. The development and evolution of building and fire codes will be studied in relationship to past fires/collapses in residential, commercial, and industrial occupancies. **Prerequisite:** FIRE B1 with a grade of "C" or better. **Hours:** 54 lect. **Offered:** F, S. **CCS:** Occupational Education. **Transferable:** CSU and private

colleges. **Note:** elective credit only.

INDR B52 Geographic Information Systems (3 units)

Modern Geographic Information Systems. Students will use CAD software to perform model-based infrastructure planning and development. Emphasis on solving problems in either Land Information Systems or Facilities Management Systems. Database Management will also be emphasized.

Prerequisite: INDR B20a with a grade of “C” or better.

Hours: 27 lect, 81 lab. **Offered:** S. **CCS:** Occupational Education. **Not Transferable:** Associate Degree only.

NURS B33 Advanced Pharmacology (2 units)

Advanced pharmacology is the development of the theoretical and technical knowledge base necessary in meeting advanced pharmacological needs of the client in a variety of settings.

The course uses the nursing process as the framework and addresses the roles of provider of care manager of care, and member of the profession. Professional issues and concepts for nursing practice related to intravenous therapy are presented including techniques of intravenous therapy and intravenous drug administration. The student will apply the advanced pharmacology principles in the clinical setting in all nursing courses. **Hours:** 27 lect., 27 lab **Offered:** S. **CCS:** Occupational Education. **Not Transferable.**

NURS B100 Strategies for Success in a Nursing Program (2 units)

Designed to prepare students for successful completion of the nursing program. The students will be given an overview of the program requirements and expectations and they will acquire information and skills that facilitate student success once admitted into the program. Students will also explore nursing career options which will guide the development of their educational plan. Satisfies the 0.5 unit educational planning requirement for graduation from Bakersfield College. Offered Pass/No Pass grading only. **Hours:** 36 lect. **Offered:** F, S. **CCS:** Occupational Education. **Not Transferable:** Associate Degree only.

ORNH B7 Ornamental Plant Identification - Large Shrubs, Small Trees, Large Trees, and Palms (3 units)

Identification, habits of growth, culture and landscape use of large shrubs, small trees, large trees and palms adapted to the Central Valley of California and the surrounding mountains. Field trips required. **Hours:** 36 lect, 54 lab. **Offered:** S. **CCS:** Occupational Education. **Transferable:** UC, CSU and private colleges.

PHED B10 Intercollegiate Competition for Men - Football (2 units)

Limitation on Enrollment: Must meet athletic code eligibility requirements. **Hours:** 180 hours by arrangement (usually 2 hours per day). Field trips may be required.

Repeat: 3. **CCS:** Liberal Arts & Sciences. **Transferable:** CSU and private colleges. PHED B11-20 transfers to UC. **Note:** May be substituted for physical education requirement for graduation. (UC campuses give a maximum of four semester units of credit for appropriate Physical Education Activity courses.) BC GE E; CSU GE E.

RADT B6 Clinical Education 2 (4 units)

Supervised clinical experiences are provided to perfect skills in a variety of basic radiographic procedures. Case studies of radiographic procedures discussing anatomy, pathology, positioning and technical factors of image quality are analyzed on a case-by-case basis. **Prerequisite:** RADT B4b with a grade of “C” or better and completion of the first semester of the Radiologic Technology Program. **Hours:** 18 lect, 238 clinical hours. **Offered:** S. **CCS:** Occupational Education. **Transferable:** CSU and private colleges.

RADT B30 Principles of Venipuncture (1 unit)

Basic instruction, practice and competency of venipuncture methods and procedures for the administration of contrast agents. Routes of administration, safety, basic pharmacology, dosage calculations and emergency procedures. Course meets California Health and Safety Code, Section 106985, pertaining to Certified Radiologic Technologists performing venipuncture. **Prerequisite:** Current Cardiopulmonary Resuscitation Healthcare provider card. **Hours:** 18 lect. **Offered:** S. **CCS:** Occupational Education. **Transferable:** CSU and private colleges.

VNRS B6 Pediatric Nursing (1.5 units)

Provides a foundation for pediatric nursing using growth and development concepts as a framework for presenting health problems and special concerns of the pediatric client. Communication, anticipatory guidance, response to hospitalization, legal and ethical issues and health care of pediatric clients are discussed. Appropriate standing in the VN Program and concurrent enrollment in VNRS B97LV are required. **Prerequisite:** Concurrent enrollment in VNRS B97LV. **Hours:** 27 lect. **Offered:** F, S. **CCS:** Occupational Education. **Transferable:** CSU and private colleges. **Note:** Not open to students who have taken the equivalent course, NURS B6.

(Effective Spring 2013)

ADDITIONS TO DEGREES AND CERTIFICATES:

Agriculture Business Management Certificate of Achievement

The Agricultural Business Management major is made up of agriculture and agricultural business courses pertaining to the agriculture industry. The certificate prepares students for entry level employment in accounting, marketing, and sales of agricultural products. Effective Fall 2009 all courses used for

meeting the requirements for degrees must be completed with a grade of "C" or better.

Total Units: 26

Required Courses:

Course Number	Title	Units
AGBS B2 or SOIL B1 or CROPS B1		3 units
AGRI B1		3 units
AGBS B6		3 units
MCAG B1 or COMS B5 or COMS B2		3 units
WEXP B248		3 units
CRPS B2 or NRES B1		3 units
ANSC B1 or ANSC B2 or ANSC B4 or ANSC B5 or ANSC B10		3 units
FORE B2 or FORE B1 or FORE B3 or FORE B5 or FORE B6		3 units
AGRI B49		2 units

Graduation Requirements

General Requirements – Bakersfield College

1. Educational Planning: Completion of a designated course and a student education plan within the first 15 units at Bakersfield College. Choose from the following:

- Agriculture: AGRI B1
- Allied Health: NURS B100
- Applied Science and Technology: INDT B10
- Business: BSAD B20
- Education: EDUC B24
- FACE: FDSV B50
- Foreign Language: ENSL B11
- Physical Science: ARCH B1; ENGR B47
- Student Development: STDV B1, B2, B4, B6

2. Minimum of 60 degree applicable units, with at least a 2.0 grade point average.

3. At least 12 of the 60 units must be completed with Bakersfield College.

4. Completion of the required courses of a designated major.

5. Competency Requirements:

- a. Composition: completion of English B1a with a minimum grade of "C."
- b. Mathematics: Two years of high school algebra or MATH BD with a minimum grade of "C"; or an equivalent score on the Placement/Assessment.
- c. Reading: a satisfactory score on the Bakersfield College

Placement/Assessment or a satisfactory grade in ACDV B50.

6. Completion of a General Education Pattern: Choose 1: Bakersfield College General Education Specific Requirements, or California State University General Education Breadth, or Intersegmental General Education Transfer Curriculum. (See General Education Requirements).

7. Completion of one course meeting the Multicultural Requirement.

Animal Science Associate in Arts Degree

Effective Fall 2009 all courses used for meeting the requirements for degrees must be completed with a grade of "C" or better. The Animal Science major prepares students for occupations in those areas of agriculture involving production, managing, and marketing of livestock. Both the scientific and practical aspects of the production of horse, beef, sheep, swine, dairy cattle and companion animals are stressed in the courses.

Total Units: 23

Required Courses:

Course Number	Title	Units
AGBS B2	Agricultural Economics	(3 units)
AGRI B1	Agriculture, Environment and Society	(3 units)
ANSC B1	Introduction to Animal Science	(3 units)
ANSC B2	Beef Production	(3 units)
or		
	ANSC B3 Sheep Production (3)	
or		
	ANSC B4 Dairy Production (3)	
or		
	ANSC B5 Swine Production (3)	
or		
	ANSC B10 Horse Production (3)	
ANSC B6	Applied Animal Nutrition	(3 units)
ANSC B7	Animal Diseases	(3 units)
AGRI B49	Agriculture Leadership Training	(2 units)
MCAG B1	Intro/Agricultural Mechanics	(3 units)
or		
	ANSC B11 Livestock Selection and Evaluation (3)	
or		
	CRPS B2 Forage Crops (3)	
or		
	NRES B1 Range Management (3)	

Graduation Requirements

General Requirements – Bakersfield College

1. Educational Planning: Completion of a designated course and a student education plan within the first 15 units at Bakersfield College. Choose from the following:

- Agriculture: AGRI B1
- Allied Health: NURS B100
- Applied Science and Technology: INDT B10
- Business: BSAD B20
- Education: EDUC B24
- FACE: FDSV B50
- Foreign Language: ENSL B11

Physical Science: ARCH B1; ENGR B47
 Student Development: STDV B1, B2, B4, B6

2. Minimum of 60 degree applicable units, with at least a 2.0 grade point average.

3. At least 12 of the 60 units must be completed with Bakersfield College.

4. Completion of the required courses of a designated major.

GRADUATION AND GENERAL EDUCATION

5. Competency Requirements:

a. Composition: completion of English B1a with a minimum grade of "C."

b. Mathematics: Two years of high school algebra or MATH BD with a minimum grade of "C"; or an equivalent score on the Placement/Assessment.

c. Reading: a satisfactory score on the Bakersfield College Placement/Assessment or a satisfactory grade in ACDV B50.

6. Completion of a General Education Pattern: Choose 1: Bakersfield College General Education Specific Requirements, or California State University General Education Breadth, or Intersegmental General Education Transfer Curriculum. (See General Education Requirements).

7. Completion of one course meeting the Multicultural Requirement.

Animal Science Associate in Science Degree

The Animal Science major prepares students for occupations in those areas of agriculture that involve livestock production and related agribusinesses. Both the scientific and practical aspects of the production of horse, beef, sheep, swine, dairy cattle, poultry, and companion animals are the focus of courses. All courses used to meet degree requirements must be completed with a "C" or better.

NOTE: Students earning a Registered Veterinary Technician Job Skills certificate only need ANSC B80-B96 (17.5 units) plus any 9 units from Animal Science AS course list plus GE requirements to total 60 units to earn Associate of Science in Animal Science.

Total Units: 26

Required Courses:

Course Number	Title	Units
AGBS B2	Agricultural Economics	3
AGRI B1	Agriculture, Environment and Society	3
ANSC B1	Introduction to Animal Science	3
WEXP B248	Cooperative Work Experience Education	3
or		
WEXP B249	Cooperative Work Experience Education (3)	
AGRI B49	Agriculture Leadership Training	2

Select 6 units from the following courses:

ANSC B2	Beef Production	3
ANSC B3	Sheep Production	3
ANSC B4	Dairy Production	3
ANSC B10	Horse Production	3
ANSC B5	Swine Production	3

Select 6 units from the following courses:

ANSC B6	Applied Animal Nutrition	4
ANSC B7	Animal Diseases	3
ANSC B11	Livestock Selection and Evaluation	3
ANSC B20	Companion Animal Care	4
ANSC B80	Introduction to Veterinary Technology	2
ANSC B84	Small Animal Diseases	1.5
ANSC B85	Large Animal Diseases	1.5
ANSC B86	Pharmacology for Veterinary Technician	1.5
ANSC B88	Srgry/Dntl/Anesthlogy,Vet Tech	1.5
ANSC B90	Emergency Medicine, Surgery/Nursing Procedures for Veterinary Technicians	2
ANSC B92	Clinical Pathology/ Vet Techn	2
ANSC B94	Caged Birds/Lab/Extc Anmls Med	2
ANSC B96	Rad/Ultrsnd/Diag Imgng,Vet Tec	1.5
NRES B1	Range Management	3
MCAG B1	Intro/Agricultural Mechanics	3

Graduation Requirements

General Requirements – Bakersfield College

1. Educational Planning: Completion of a designated course and a student education plan within the first 15 units at Bakersfield College. Choose from the following:

Agriculture: AGRI B1

Allied Health: NURS B100

Applied Science and Technology: INDT B10

Business: BSAD B20

Education: EDUC B24

FACE: FDSV B50

Foreign Language: ENSL B11

Physical Science: ARCH B1; ENGR B47

Student Development: STDV B1, B2, B4, B6

2. Minimum of 60 degree applicable units, with at least a 2.0 grade point average.

3. At least 12 of the 60 units must be completed with Bakersfield College.

4. Completion of the required courses of a designated major.

GRADUATION AND GENERAL EDUCATION

5. Competency Requirements:

a. Composition: completion of English B1a with a minimum grade of "C."

b. Mathematics: Two years of high school algebra or MATH BD with a minimum grade of "C"; or an equivalent score on the Placement/Assessment.

c. Reading: a satisfactory score on the Bakersfield College Placement/Assessment or a satisfactory grade in ACDV B50.

6. Completion of a General Education Pattern: Choose 1: Bakersfield College General Education Specific Requirements, or California State University General Education Breadth, or Intersegmental General Education Transfer Curriculum. (See General Education Requirements).

7. Completion of one course meeting the Multicultural Requirement.

Animal Science Certificate of Achievement

See also Pre-veterinary Medical Option and Registered Veterinary Technician. Certificate prepares students for entry level employment in food animal production and animal management and care. This program prepares students for careers in Animal Science and entry level production jobs such as feed mill technician, beef technician, swine technician, poultry technician, animal groomer, small animal assistant technician, and pet store employee.

Total Units: 30

Required Courses:

Course Number	Title	Units
AGRI B1	Agriculture, Environment and Society	3
ANSC B1	Introduction to Animal Science	3
AGRI B49	Agriculture Leadership Training	2

Select 22 units from the following courses:

ANSC B2	Beef Production	3
ANSC B3	Sheep Production	3
ANSC B4	Dairy Production	3
ANSC B6	Applied Animal Nutrition	4
ANSC B7	Animal Diseases	3
ANSC B10	Horse Production	3
ANSC B11	Livestock Selection and Evaluation	3
ANSC B22	Animals and Society	3
ANSC B20	Companion Animal Care	4
MCAG B1	Intro/Agricultural Mechanics	3
ANSC B80	Introduction to Veterinary Technology	2
ANSC B82	Anatomy and Physiology of Domestic Animals	2
ANSC B84	Small Animal Diseases	1.5
ANSC B86	Pharmacology for Veterinary Technician	1.5
ANSC B88	Srgry/Dntl/Anesthlogy,Vet Tech	1.5
ANSC B90	Emergency Medicine, Surgery/Nursing Procedures for Veterinary Technicians	2
ANSC B92	Clinical Pathology for Veterinary Technicians	2
ANSC B94	Caged Birds, Laboratory, and Exotic Animal Medicine	2
ANSC B96	Radiology, Ultrasound, and Diagnostic Imaging for Veterinary Technology	1.5
WEXP B248	Cooperative Work Experience Education	3

or

WEXP B249 Cooperative Work Experience Education

Graduation Requirements
General Requirements

1. Educational Planning: Completion of a designated course and a student education plan within the first 15 units at Bakersfield College. Choose from the following:

- Agriculture: AGRI B1
- Allied Health: NURS B100
- Applied Science and Technology: INDT B10
- Business: BSAD B20
- Education: EDUC B24
- FACE: FDSV B50
- Foreign Language: ENSL B11
- Physical Science: ARCH B1; ENGR B47
- Student Development: STDV B1, B2, B4, B6

2. Minimum of 60 degree applicable units, with at least a 2.0 grade point average.

3. At least 12 of the 60 units must be completed with Bakersfield College.

4. Completion of the required courses of a designated major.

GRADUATION AND GENERAL EDUCATION
GRADUATION AND GENERAL EDUCATION

5. Competency Requirements:

- a. Composition: completion of English B1a with a minimum grade of "C."
- b. Mathematics: Two years of high school algebra or MATH BD with a minimum grade of "C"; or an equivalent score on the Placement/Assessment.
- c. Reading: a satisfactory score on the Bakersfield College Placement/Assessment or a satisfactory grade in ACDV B50.

6. Completion of a General Education Pattern: Choose 1: Bakersfield College General Education Specific Requirements, or California State University General Education Breadth, or Intersegmental General Education Transfer Curriculum. (See General Education Requirements).

7. Completion of one course meeting the Multicultural Requirement.

Architectural Drafting Associate in Arts Degree

This degree covers the principles of architectural CAD to include basic 2D and 3D AutoCAD application as well as BIM related software covering architectural practices including both residential and light commercial working documents. Emphasis is also placed on architectural delineation using software.

Required Courses:

Course Number	Title	Units
ARCH B1	Introduction to Architecture and Environmental Design	1.5
ARCH B6	Materials of Construction	3
ARCH B11	Design and Perspective Drawing	4
ARCH B12	Design Drawing and Color	4
ARCH B16	Digital Tools for Graphics Communication	3
ARCH B21	Architectural Design Fundamentals I	4

ARCH B30 Residential Building Information Modeling	4
ARCH B33 Architectural Computer Practice	3
INDR B11 Introduction to Computer Aided Drafting and Design (CAD)	1
Electives	
	Units
ARCH B55 Building Codes	3
INDR B20A Computer Aided Drafting and Design (CAD)	3
Graduation Requirements	
General Requirements	
1. Educational Planning: Completion of a designated course and a student education plan within the first 15 units at Bakersfield College. Choose from the following:	
Agriculture: AGRI B1	
Allied Health: NURS B100	
Applied Science and Technology: INDT B10	
Business: BSAD B20	
Education: EDUC B24	
FACE: FDSV B50	
Foreign Language: ENSL B11	
Physical Science: ARCH B1; ENGR B47	
Student Development: STDV B1, B2, B4, B6	

2. Minimum of 60 degree applicable units, with at least a 2.0 grade point average.

3. At least 12 of the 60 units must be completed with Bakersfield College.

4. Completion of the required courses of a designated major.

GRADUATION AND GENERAL EDUCATION

5. Competency Requirements:
- Composition: completion of English B1a with a minimum grade of "C."
 - Mathematics: Two years of high school algebra or MATH BD with a minimum grade of "C"; or an equivalent score on the Placement/Assessment.
 - Reading: a satisfactory score on the Bakersfield College Placement/Assessment or a satisfactory grade in ACDV B50.

6. Completion of a General Education Pattern: Choose 1: Bakersfield College General Education Specific Requirements, or California State University General Education Breadth, or Intersegmental General Education Transfer Curriculum. (See General Education Requirements).

7. Completion of one course meeting the Multicultural Requirement.

Architectural Drafting Associate in Science Degree

This degree covers the principles of architectural CAD to include basic 2D

and 3D AutoCAD application as well as BIM related software covering architectural practices including both residential and light commercial working documents. Emphasis is also placed on architectural delineation using software. Total units: 39.5

Required Courses:

Course Number	Title	Units
ARCH B1	Introduction to Architecture and Environmental Design	1.5
ARCH B6	Materials of Construction	3
ARCH B11	Design and Perspective Drawing	4
ARCH B12	Design Drawing and Color	4
ARCH B16	Digital Tools for Graphics Communication	3
ARCH B21	Architectural Design Fundamentals I	4
ARCH B22	Architectural Design Fundamentals II	4
ARCH B30	Residential Building Information Modeling	4
ARCH B33	Architectural Computer Practice	3
INDR B11	Introduction to Computer Aided Drafting and Design (CAD)	1
MATH B1a	Precalculus I OR	4
MATH B6a	Analytic Geometry/Calculus I (4)	4
PHYS B2a	General Physics – Mechanics and Heat	4

Recommended Courses

	Units
INDR B20A Computer Aided Drafting and Design (CAD)	3

Graduation Requirements

General Requirements

1. Educational Planning: Completion of a designated course and a student education plan within the first 15 units at Bakersfield College. Choose from the following:

- Agriculture: AGRI B1
- Allied Health: NURS B100
- Applied Science and Technology: INDT B10
- Business: BSAD B20
- Education: EDUC B24
- FACE: FDSV B50
- Foreign Language: ENSL B11
- Physical Science: ARCH B1; ENGR B47
- Student Development: STDV B1, B2, B4, B6

2. Minimum of 60 degree applicable units, with at least a 2.0 grade point average.

3. At least 12 of the 60 units must be completed with Bakersfield College.

4. Completion of the required courses of a designated major.

GRADUATION AND GENERAL EDUCATION

5. Competency Requirements:

- Composition: completion of English B1a with a minimum grade of "C"
- Mathematics: Two years of high school algebra or MATH BD with a minimum grade of "C"; or an equivalent score on

the Placement/Assessment.

c. Reading: a satisfactory score on the Bakersfield College Placement/Assessment or a satisfactory grade in ACDV B50.

6. Completion of a General Education Pattern: Choose 1: Bakersfield College General Education Specific Requirements, or California State University General Education Breadth, or Intersegmental General Education Transfer Curriculum. (See General Education Requirements).

7. Completion of one course meeting the Multicultural Requirement.

Business Administration Associate in Arts Degree

All courses used for meeting the requirements for degrees must be completed with a grade of "C" or better. The general purpose of the program in Business Administration at the university and state college is twofold. First, it is organized to help students to develop a broad understanding of our economy and our society in order to serve as a basis for responsible administrative and executive positions in business and government. Second, it offers the opportunity for students to acquire skills in specialized and professional types of employment. Since requirements vary, the current catalog of the chosen college or university should be consulted for specific requirements of the School of Business Administration. This suggested program will meet most of the lower division requirements at the California State colleges and universities as well as fulfilling the major requirements for the Associate in Arts Degree from Bakersfield College.

Required Courses:

Course Number	Title	Units
BSAD B1	Financial Accounting	(4 units)
BSAD B2	Managerial Accounting	(4 units)
COMS B5	Introduction to Microsoft Office 2010	(3 units)
or		
COMS B2	Introduction to Computer Information Systems	(3 units)
or		
COMS B3	Computer Concepts and Survival Skills	(2 units)
ECON B1	Principles of Economics-Micro	(3 units)
ECON B2	Principles of Economics-Macro	(3 units)
MATH B23	Finite Mathematics	(3 units)
or		
MATH B2	Basic Functions and Calculus for Business	(5 units)
or		
MATH B6A	Analytic Geometry/Calculus I	(4 units)
MATH B22	Elem Probability/Statistics	(5 units)

Graduation Requirements

General Requirements

1. Educational Planning: Completion of a designated course and a student education plan within the first 15 units at Bakersfield College. Choose from the following:

- Agriculture: AGRI B1
- Allied Health: NURS B100
- Applied Science and Technology: INDT B10
- Business: BSAD B20
- Education: EDUC B24
- FACE: FDSV B50
- Foreign Language: ENSL B11
- Physical Science: ARCH B1; ENGR B47

Student Development: STDV B1, B2, B3, B4, B6

2. Minimum of 60 degree applicable units, with at least a 2.0 grade point average.

3. At least 12 of the 60 units must be completed with Bakersfield College.

4. Completion of the required courses of a designated major.

GRADUATION AND GENERAL EDUCATION

5. Competency Requirements:

a. Composition: completion of English B1a with a minimum grade of "C"

b. Mathematics: Two years of high school algebra or MATH BD with a minimum grade of "C"; or an equivalent score on the Placement/Assessment.

c. Reading: a satisfactory score on the Bakersfield College Placement/Assessment or a satisfactory grade in ACDV B50.

6. Completion of a General Education Pattern: Choose 1: Bakersfield College General Education Specific Requirements, or California State University General Education Breadth, or Intersegmental General Education Transfer Curriculum. (See General Education Requirements).

7. Completion of one course meeting the Multicultural Requirement

Child Development Master Teacher: Special Education Certificate

The Certificate of Achievement for Special Education may be earned by taking the 28 units of child development courses required for the Child Development Teacher Certificate of Achievement and the following courses.

Total Units: 36

Required Courses:

Course Number	Title	Units
Required Courses:		
CHDV B33	Survey of Special Education	(3 units)
CHDV B52	Care of Infants and Toddlers with Disabilities	(3 units)
CHDV B53a	Early Childhood Education: Adult Supervision	(2 units)

Courses required for the Child Development Teacher Certificate of Achievement:

- CHDV B21 Child Growth and Development: Birth Through Adolescence (3 units)
- CHDV B22 Observation and Assessment-Birth Through Adolescence (3 units)
- CHDV B32 Teaching in a Diverse Society (3 units)
- CHDV B36 Developmentally Appropriate Curriculum (3 units)
- CHDV B40 Creative Art, Movement, and Music Activities for Young Children (3 units)
- CHDV B42 Child, Family and Community (3 units)

CHDV B49 Child Health, Safety, and Nutrition (3 units)
 CHDV B20 Principles and Practices (3 units)
 CHDV B41 Supervised Field Experience in Early Childhood Education (4 units)

Graduation Requirements

General Requirements

1. Educational Planning: Completion of a designated course and a student education plan within the first 15 units at Bakersfield College. Choose from the following:

- Agriculture: AGRI B1
- Allied Health: NURS B100
- Applied Science and Technology: INDT B10
- Business: BSAD B20
- Education: EDUC B24
- FACE: FDSV B50
- Foreign Language: ENSL B11
- Physical Science: ARCH B1; ENGR B47
- Student Development: STDV B1, B2, B3, B4, B6

2. Minimum of 60 degree applicable units, with at least a 2.0 grade point average.

3. At least 12 of the 60 units must be completed with Bakersfield College.

4. Completion of the required courses of a designated major.

GRADUATION AND GENERAL EDUCATION

5. Competency Requirements:

- a. Composition: completion of English B1a with a minimum grade of "C."
- b. Mathematics: Two years of high school algebra or MATH BD with a minimum grade of "C"; or an equivalent score on the Placement/Assessment.
- c. Reading: a satisfactory score on the Bakersfield College Placement/Assessment or a satisfactory grade in ACDV B50.

6. Completion of a General Education Pattern: Choose 1: Bakersfield College General Education Specific Requirements, or California State University General Education Breadth, or Intersegmental General Education Transfer Curriculum. (See General Education Requirements).

7. Completion of one course meeting the Multicultural Requirement.

Child Development Teacher Certificate of Achievement

The Certificate of Achievement may be earned by students who satisfactorily complete 27 units of course work listed below with a grade of "C" or better. This course work meets the Child Development requirements for the Child Development Teacher Permit. Students may apply for the Permit at the Kern County Superintendent of Schools, Office of Credentials, 636-4750 or 636-4751. Students must also meet the General Education requirement and Experience requirement in accordance with the California Commission on Teacher Credentialing.

Total Units: 28

Required Courses:

Course Number	Title	Units
---------------	-------	-------

Required Courses:

- CHDV B21 Child Growth and Development: Birth Through Adolescence (3 units)
- CHDV B22 Observation and Assessment-Birth Through Adolescence (3 units)
- CHDV B32 Teaching in a Diverse Society (3 units)
- CHDV B36 Developmentally Appropriate Curriculum (3 units)
- CHDV B40 Creative Art, Movement, and Music Activities for Young Children (3 units)
- CHDV B42 Child, Family and Community (3 units)
- CHDV B49 Child Health, Safety, and Nutrition (3 units)
- CHDV B20 Principles and Practices (3 units)
- CHDV B41 Supervised Field Experience in Early Childhood Education (4 units)

Graduation Requirements

General Requirements

1. Educational Planning: Completion of a designated course and a student education plan within the first 15 units at Bakersfield College. Choose from the following:

- Agriculture: AGRI B1
- Allied Health: NURS B100
- Applied Science and Technology: INDT B10
- Business: BSAD B20
- Education: EDUC B24
- FACE: FDSV B50
- Foreign Language: ENSL B11
- Physical Science: ARCH B1; ENGR B47
- Student Development: STDV B1, B2, B3, B4, B6

2. Minimum of 60 degree applicable units, with at least a 2.0 grade point average.

3. At least 12 of the 60 units must be completed with Bakersfield College.

4. Completion of the required courses of a designated major.

GRADUATION AND GENERAL EDUCATION

GRADUATION AND GENERAL EDUCATION

5. Competency Requirements:

- a. Composition: completion of English B1a with a minimum grade of "C."
- b. Mathematics: Two years of high school algebra or MATH BD with a minimum grade of "C"; or an equivalent score on the Placement/Assessment.
- c. Reading: a satisfactory score on the Bakersfield College Placement/Assessment or a satisfactory grade in ACDV B50.

6. Completion of a General Education Pattern: Choose 1: Bakersfield College General Education Specific Requirements, or California State University General Education Breadth, or Intersegmental General Education Transfer Curriculum. (See General Education Requirements).

7. Completion of one course meeting the Multicultural Requirement.

Associate Degree Nursing Program, A.S.

The study of nursing is the application of knowledge from the arts and sciences. The purpose of the Bakersfield College Associate Degree Program is to provide the foundation for students to become competent registered nurses. The ADN Program respects the individuality of students and

recognizes that each student has different educational, experiential, cultural, spiritual, economic and social backgrounds and a unique support system. The aim of the Program is to provide a positive, innovative learning model that fosters the development of critical thinking and problem solving skills so that the graduate nurse is equipped to deliver care to a culturally diverse population in a variety of healthcare settings. Total Units: 41

Mission

The mission of the Bakersfield College Associate Degree Nursing Program is to prepare entry-level registered nurses as providers and managers of care across the health/illness continuum and as members within the profession. Graduate nurses will collaborate with members of the health care team, be effective communicators, be politically aware, and demonstrate a commitment to life long learning.

Prerequisite Requirements

- All prerequisites must be completed with a "C" grade or higher.
 - ENGL B1A (Expository Composition), 4 units at Bakersfield College or equivalent course at another accredited college.
 - MATH BD (Intermediate Algebra) or higher, 3 units at Bakersfield College or an equivalent course at another accredited college
 - CHEM B11 (Introduction to General, organic and Biochemistry) or CHEM B2A (Introduction to General Chemistry) or CHEM B1A (General Chemistry) at Bakersfield College or an equivalent Chemistry course of 3-5 units from another accredited college.
 - BIOL B16 (General Microbiology) 5 units at Bakersfield College or equivalent course at another accredited college.
 - BIOL B32 (Anatomy & Physiology I) 4 units at Bakersfield College or equivalent course at another accredited college.
 - BIOL B33 (Anatomy & Physiology II) 4 units at Bakersfield College or equivalent course at another accredited college.
- (Anatomy and Physiology requirement can also be met with Human Anatomy (min. of 4 units) AND Human Physiology (min. of 4 units) of equivalent courses from another accredited college

General Education

General education courses are required to graduate from Bakersfield College with an Associate Degree in Nursing. It is suggested that most of these courses be completed prior to beginning the Nursing Program.

- Social Science (3 units) – any course listed in Area D3 of the Bakersfield College General Education Pattern
- Arts, Literature, Philosophy, and Foreign Language (3 units) –any course as listed in Area C of the Bakersfield College General Education Pattern.
- COMM B1* or COMM B2*
- ANTHB2* or SOC B1*
- PSYC B1A*
- Physical Education (1 unit) required from PHED courses numbered from B2-B33 or B49.
- HLED-Health Education (3 units) is waived for RN students
- NURS B100 - Educational Planning (recommended) or -any course listed under Bakersfield College General requirements for graduation. (A student development course is recommended to be taken during the first semester of courses at Bakersfield College to assure priority registration.)
- *Board of Registered Nursing required course; the courses must be completed with a 'C' grade or better. Note: All graduation requirements of the college must be met to earn an Associate of Science (A.S.) in Nursing and to take the NCLEX RN – Licensure Exam.

Course Titles, Units

First Semester

- NURS B20 Fundamentals of Nursing (4 units)
- and
- NURS B21 Medical Surgical Nursing 1 (5 units)
- and
- NURS B22 Pharmacology (3 units)
- Total: 12

- Second Semester
- NURS B23 Medical Surgical Nursing 2 (4.5 units)
- and
- NURS B24 Obstetrics - Maternity Nursing (3 units)
- and
- NURS B25 Mental Health - Psychiatric Nursing (3.5 units)
- Total: 11

- Third Semester
- NURS B26 Medical Surgical Nursing 3 (5.5 units)
- and
- NURS B27 Pediatric Nursing (3.5 units)
- Total: 9

- Fourth Semester
- NURS B28 Medical Surgical Nursing 4 (7 units)
- and
- NURS B29 Gerontology - Community Nursing (2 units)

Graduation Requirements

General Requirements

1. Educational Planning: Completion of a designated course and a student education plan within the first 15 units at Bakersfield College. Choose from the following:
 - Agriculture: AGRI B1
 - Allied Health: NURS B100
 - Applied Science and Technology: INDT B10
 - Business: BSAD B20
 - Education: EDUC B24
 - FACE: FDSV B50
 - Foreign Language: ENSL B11
 - Physical Science: ARCH B1; ENGR B47
 - Student Development: STDV B1, B2, B3, B4, B6

2. Minimum of 60 degree applicable units, with at least a 2.0 grade point average.

3. At least 12 of the 60 units must be completed with Bakersfield College.

4. Completion of the required courses of a designated major.

GRADUATION AND GENERAL EDUCATION

5. Competency Requirements:
 - a. Composition: completion of English B1a with a minimum grade of "C."
 - b. Mathematics: Two years of high school algebra or MATH BD with a minimum grade of "C"; or an equivalent score on the Placement/Assessment.
 - c. Reading: a satisfactory score on the Bakersfield College Placement/Assessment or a satisfactory grade in ACDV B50.

6. Completion of a General Education Pattern: Choose 1: Bakersfield College General Education Specific Requirements, or California State University General

Education Breadth, or Intersegmental General Education Transfer Curriculum. (See General Education Requirements).

7. Completion of one course meeting the Multicultural Requirement.

Studio Arts: Associate of Arts Degree for Transfer (AA-T)

Effective Fall 2009 all courses used for meeting the requirements for degrees must be completed with a grade of "C" or better.

The Associate in Arts in Studio Arts for Transfer is intended for those transfer-directed students who plan to complete an AA in Art because it guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the degree, students must complete a maximum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education Breadth or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Studio Arts for Transfer degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The Bakersfield College Art Department wishes to expose students to study in a wide variety of media, and to prepare them to make societal contributions by becoming citizens who are visually literate, culturally aware, skilled in creative problem-solving, and aesthetically sensitive.

Program level outcomes - the successful student will be able to:

- Demonstrate an understanding of the principles, elements, and language of art/design.
- Demonstrate the ability to critique their own work, as well as the work of other students; and defend their creative choices verbally.
- Demonstrate an understanding of a portfolio or "body of work."

Program Requirements

Required Core – 12 units

Course Number	Course Title	Units
ART B36	Survey of Western Art II*	3
ART B4	Two Dimensional Design*	3
ART B5	Three Dimensional Design	3
ART B2	Drawing I *	3

List A: Choose 3 units

ART B35	Survey of Western Art I*	3
ART B37	Survey of Art – Latin America*	3
List B: Curricular Areas Choose 9 units**		
ART B8	Figure Drawing I	3
ART B6	Acrylic Painting I	3
ART B10	Ceramics I	3
ART B13	Sculpture I	3
ART B20	Digital Art I – Vector Art	3
ART B17	Black & White Photography	3

A student can choose any other "Local studio course" or "Second Semester course" to complete the 9 unit "Curricular" requirement:

Local studio courses

ART B16	Digital Photography	3
ART B24	Digital Art II - Raster Art	3
ART B25	Typography	3
ART B42	Graphic Design	3

Second semester courses

Art B9	Figure Drawing II	3
Art B11	Ceramics II	3

*Courses can be double counted for General Education.

**Note: "Local studio" or "Second Semester" courses can also be used to complete the 9 unit Curricular area requirement.

Category	Units
Units in Major	24
CSU GE Breadth	39
Possible double counting of GE's	12

Total UNITS 60

