

Registered Nursing *A.S. Degree and Certificate of Completion*

PREREQUISITES:

LVN LICENSURE REQUIREMENTS	units vary
AH 16 Intravenous Therapy / Blood Withdrawal	2 units

Choose one:

BIO 7* Human Anatomy (4 units)	4-5 units
BIO 15* Survey of Anatomy and Physiology (5 units)	4-5 units
BIO 8* General Microbiology.....	5 units
BIO 9* Human Physiology	5 units
CHEM 30A Elementary Chemistry (recommended).....	4 units
ENGL 1A Composition	3 units

Required Clinical Courses:

AH 43 Interactive and Mental Health Nursing	10 units
AH 44 Compensatory Nursing Care	10 units

ADDITIONAL LICENSURE/GE REQUIREMENTS:

CMUN 1A Introduction to Public Speaking	3 units
ENGL 260 Preparation for College Reading	3 units
SOC 1A Introduction to Sociology	3 units
Arts, Literature and Foreign Language	3 units
Social, Political and Economic Institutions	3 units
Lifelong Understanding & Self-Development (PE Activity).....	1 unit
Total Units for A.S. degree/Licensure	minimum of 60 UNITS

* Prerequisite for admission to R.N. program.

Program Learning Outcomes: After completing this degree or certificate a student will:

- ▶ take and pass the licensure exam.
- ▶ function within the scope of practice of the registered nurse as outlined by the California Board of Registered Nursing.
- ▶ practice within professional and legal standards, ethical principles and demonstrate sensitivity to the cultural differences of clients.
- ▶ apply principles of oral, written and verbal communication to convey relevant, accurate and complete information.
- ▶ demonstrate an ability to practice safely.
- ▶ apply the nursing process by assessing, planning, implementing and evaluating nursing care and teaching the maintenance of health and prevention of disease.

At the present time, the Registered Nursing program is open to licensed vocational nurses or those who have successfully completed a vocational nursing program and are exam eligible.

After completing the Registered Nursing program and passing the National Council Licensure Examination, students will have job entry skills for registered nursing. The Associate's degree in Registered Nursing requires completion of the Allied Health clinical courses listed plus general education requirements. Students are then qualified for a Certificate of Completion in Registered Nursing and an Associate of Science degree.

Registered Nursing - 30-Unit Option *Certificate of Completion*

BIO 9* Human Physiology.....	5 units
BIO 8* Microbiology	5 units
AH 43 Interactive and Mental Health Nursing	10 units
AH 44 Compensatory Nursing	10 units
Certificate Requirements	30 UNITS

* Prerequisite for admission to R.N. program. Student must be certified in IV therapy and blood withdrawal.

Completion of the courses listed will qualify the student for a Certificate of Completion in Registered Nursing. This option is available to Licensed Vocational nurses only. Please consult a counselor (408-848-4723.)

Registered Nursing - Transfer Prep. Pre-Major *Courses for Transfer*

AH 3 The Person in the Life Cycle	3 units
AH 11 Nutrition	3 units
BIO 7 Human Anatomy	4 units
BIO 8 Microbiology	5 units
BIO 9 Human Physiology	5 units
CHEM 30A Elementary Chemistry	4 units
CHEM 30B Elementary Organic & Biochemistry	4 units
CMUN 1A Introduction to Public Speaking	3 units
ENGL 1A Composition	3 units
ENGL 1B Composition & Literature.....	3 units
PSYC 1A Introduction to Psychology	3 units
SOC 1A Introduction to Sociology	3 units
Total Units:	43 units

Students interested in a Bachelor of Science in Nursing program are encouraged to consult the catalog from the college they plan to attend. Generally accepted courses offered at Gavilan are listed here. Courses may have prerequisites. Please consult course description.

Four-year colleges may differ in their major preparation requirements for transfer. Consult with a counselor regarding transfer requirements.

Art *A.A. Degree*

To complete units of Art electives to complete a minimum total of 24 units.

MAJOR REQUIREMENTS:

FOUNDATION COURSES:

ART 2A	Two Dimensional Design	3 units
ART 13	Three Dimensional Design	3 units
ART 3A	Drawing and Composition	3 units

ART HISTORY Choose 3 units:

ART 1A	Art History (3 units)	
ART 1B	Art History (3 units)	
ART 20	Art of Asia (3 units)	
ART 21	Ancient Americas: A History through Art (3 units)	
	 minimum of 3 units

DRAWING AND PAINTING Choose 6 units:

ART 3B	Drawing and Composition (3 units)	
ART 14	Beginning Mural Painting (3 units)	
ART 15A	Beginning Painting: Form and Composition (3 units)	
ART 15B	Beginning Painting: Imagination and Expression (3 units)	
ART 16A	Watercolor Painting: Form and Composition (3 units)	
ART 16B	Watercolor Painting: Imagination and Expression (3 units)	
ART 34A	Life Drawing (3 units)	
ART 34B	Life Drawing (3 units)	
	 minimum of 6 units

SCULPTURE Choose 3 units:

ART 10A	Cultural History of Ceramics (3 units)	
ART 10B	Ceramics (3 units)	
ART 12A	Sculpture (2 units)	
ART 12B	Sculpture (2 units)	
	 minimum of 3 units

ART ELECTIVES: Choose 3 units:

In addition to satisfying the requirements outlined above, students may take any class within the Art discipline to satisfy this elective requirement, *with the exception of:* ART 108 (Digital Media Lab) and ART 190 (Work Experience).

..... minimum of 3 units
24 UNITS

Total Units for Major:

Plus completion of general education requirements units vary
Total Units Required for A.A.: minimum of 60 UNITS

Program Learning Outcomes: After completing the Art major a student will be able to:

- ▶ analyze and describe the historical and contemporary implications of art in terms of aesthetics, content and meaning.
- ▶ create artworks using a variety of two dimensional art media, tools and equipment.
- ▶ create artworks using a variety of three dimensional art media, tools and equipment.
- ▶ demonstrate color theory and use color schemes. Students will be able to apply color theory to a variety of art media.
- ▶ demonstrate and articulate social, political, and community issues as they relate to art and artmaking. This includes public art and public artmaking.

Double Counting: A minimum of 18 major course units are required for the associate degree. Should your particular major require 18 + units, you may use (double count) any courses, if applicable, over the 18 unit minimum, to satisfy general education requirements. Four-year colleges may differ in their major preparation requirements for transfer. Consult with a counselor regarding transfer requirements.

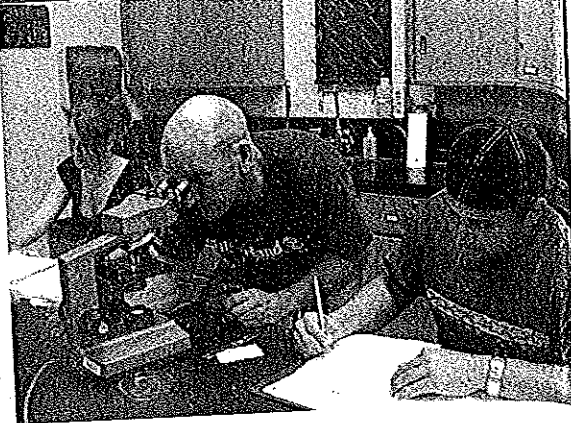
General Education Requirements: A student may complete the Gavilan College AA/AS general education, the CSU-GE Breadth, or the IGETC pattern. See a counselor for details.

BIOLOGICAL SCIENCE

A.S. Degree

Biotechnology Certificate of Achievement

Contact:
(408) 848-4701
las@gavilan.edu



Biological Science

A.S. Degree

MAJOR REQUIREMENTS:		
CHEM 1A/B	General Chemistry	5-5 units
BIO 1	General Biology	4 units
BIO 4	General Zoology	4 units
BIO 5	General Botany	4 units
PHYS 2A/B	General Physics	4-4 units
Total Units for Major:		30 UNITS

Plus completion of general education requirements units vary
Total Units Required for A.S.: minimum of 60 UNITS

Recommended Electives:
MATH 1A/B, ECOL 1, BIO 8, 9, 15 (only if taken before BIO 7 and BIO 9)

Students completing the courses will have satisfied requirements for physical and biological sciences. See the Gavilan general education requirements on page 47.

Recommended preparation for the major requirements listed.

1. One year of high school chemistry or CHEM 30A (Elementary Chemistry) or BIO 1, CHEM 30A or BIO 10 or equivalent.
2. At a minimum be eligible to enter ENGL 250 and ENGL 260.
3. Two years of high school math or MATH 233.

Biotechnology

Certificate of Achievement

BIOT 103	Biotechnology Lab Skills and Instrumentation	4 units
BIOT 104	Seminar in Biotechnology	1 unit
BIO 10	Principles of Biology	4 units
CHEM 30A	Elementary Chemistry	4 units
CHEM 30B	Elementary Organic and Biochemistry	4 units
Total Units for Certificate:		17 UNITS

Program Learning Outcomes: After completing the Biological Science major a student will be able to:

- ▶ discuss the scientific method and utilize the scientific method in further understanding of their bodies and the world at large.
- ▶ develop basic laboratory skills, which they will be able utilize in further investigations.
- ▶ identify structures of selected organisms and relate structure to biological function.

Students transferring to a four year institution will be prepared for additional study in the following areas: Biology, botany, ecology, entomology, forestry, genetics, marine biology, microbiology, medical technology, molecular biology, nursing, physical therapy, pre-dental, pre-medicine, pre-veterinarian, zoology

Double Counting: A minimum of 18 major course units are required for the associate degree. Should your particular major require 18 + units, you may use (double count) any courses, if applicable, over the 18 unit minimum, to satisfy general education requirements. **Four-year colleges may differ in their major preparation requirements for transfer. Consult with a counselor regarding transfer requirements.**

Careers for those with a biotechnology certificate:

- Animal care technician
- Assay analyst
- Laboratory assistant or technician
- Manufacturing technician
- QA/QC technician

In addition to the biotechnology industry, jobs for technicians can be found in environmental testing labs, forensic labs, hospitals, plant pathology labs, research labs and wineries.

Child Development

A.A. Degree

CD 1	Principles & Philosophies of Early Childhood Education	3 units
CD 2	Early Child Development	3 units
CD 4	Observing & Assessing Children	3 units

Choose one:

CD 5	Child, Family, and the Community (3 units)	3 units
CD 7	Cultural Context of Childhood (3 units)	3 units
CD 9	Health, Safety and Nutrition for Children	3 units
CD 19	Introduction to Careers with Children	2 units
CD 20	Children's Language and Literature	3 units
Electives - Any CD courses		6 units

Student Teaching Practicum:

CD 30A	Teaching Practices and Techniques I	3 units
CD 30B	Teaching Practices and Techniques II	3 units
CD 190	Child Development Cooperative Work Experience	2-4 units

Total Units for Major: 34-36 UNITS

Plus completion of general education requirements units vary
Total Units Required for A.A.: minimum of 60 UNITS

Student Teaching Practicum:

Associate's degree students are required to complete a two-semester Student Teaching Practicum in an approved child development site under the supervision of a Gavilan College instructor.

The student teaching practicum consists of a two-semester curriculum course (CD 30 A/B, Teaching Practices and Techniques I, II, 3/3 units), and concurrent enrollment in a supervised child development work experience class (CD 190, Child Development Cooperative Work Experience, 1-4 units each semester). It is recommended that students complete CD 1, 2, and CD 5 or 7 before beginning the student teaching practicum.

CD 190 (Child Development Cooperative Work Experience) may also be taken as an independent class throughout the student's program (1-4 units per semester, for a total of 4-16 units). Students enrolled in a Cooperative Work Experience class must be enrolled in at least seven total units each semester.

The associate's degree will prepare students to transfer to 4 year colleges and universities and provides an introductory sequence of classes leading to careers in child development and elementary and secondary education. Students will be eligible to apply for a permit to become a teacher, master teacher or site supervisor within the California Child Development and School Age Matrix. The Child Development Permit Matrix was developed to ensure a career pathway for child care professionals in state or federally funded programs. See page 94.

Completion of the Associate's Degree in Child Development: Associate's degree students need to complete the required courses and student teaching practicum previously listed and the general education requirements. In order to qualify for the California Child Development Permit Matrix, associate's degree classes must be completed with a letter grade of "C" or higher. A copy of the Permit Matrix may be viewed on page 94 of this catalog.

All Child Development majors need satisfied and complete an Educational Plan.

Program Learning Outcomes: After completing the Associate's degree in Child Development a student will be eligible:

- ▶ to apply for the Associate, Assistant, Teacher and Master Teacher Permits for the California Child Development Permit MATRIX.
- ▶ for employment in state and federally funded childcare centers, and private childcare programs as teacher aides, teachers and master teachers, or site supervisors.

Graduates will:

- ▶ function within the scope of approved state and nationally accredited early childhood and childcare competencies.
- ▶ practice within professional and legal standards, ethical principles, and demonstrate a sensitivity to language and cultural differences of the children, families, and staff where they will be working or completing their cooperative work experiences.
- ▶ apply principles of written and verbal communication, and research to communicate relevant, accurate and complete information.
- ▶ apply child development principles and sensitivity to theory and applications of working with families of children with special needs.
- ▶ demonstrate an ability to design, develop and implement curriculum, appropriate educational environments, and successful teaching practices that enhance development in children in the early years.

Double Counting: A minimum of 18 major course units are required for the associate degree. Should your particular major require 18+ units, you may use (double count) any courses, if applicable, over the 18 unit minimum, to satisfy general education requirements. **Four-year colleges may differ in their major preparation requirements for transfer. Consult with a counselor regarding transfer requirements.**