

Nursing

Nursing, Registered

The Nursing program is approved by the California State Board of Registered Nursing.

Program Description

The Registered Nursing Program at Solano Community College is a 2-year Associate Degree Program fully approved by the CA Board of Registered Nursing and is subject to its regulations regarding the education and training of nurses. Successful completion of the program qualifies the student to apply to the National Council Licensing Examination (NCLEX-RN) to become a Registered Nurse. The practice of nursing requires knowledge of the biological, behavioral, and physical sciences, as well as knowledge of, and the ability to speak, to read, and to write the English language proficiently. This program follows the policy of non-discrimination set forth by the Governing Board of Solano Community College.

Associate in Science Degree

The Associate in Science Degree is awarded upon successful completion of the major and general education requirements. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Registered Nursing Associate Degree will be able to:

1. Synthesize principles of the nursing process and critical thinking to assist individuals, families and communities to achieve positive adaptation to change in health or a peaceful death.
2. Integrate technology and evidence-based concepts of nursing practice across the health care continuum to ensure quality patient centered care.
3. Educate patients, families, and communities in health promotion behaviors that increase health and wellness and decrease disease and illness in populations and communities

Retention in Program:

1. Students are required to undergo criminal background checks and drug screens. Health Sciences may be unable to place students in a clinical setting if they have a positive criminal background check or drug screen; therefore, the student may be dropped from the nursing program.
2. If a student's conduct poses potential harm to the well-being of clients or is disruptive to the classroom or lab environment, the student may be terminated from the nursing program.
3. If a student's physical or emotional health appears to be such that he or she cannot meet the objectives of the program in nursing, the student may be asked to leave the nursing program.
4. In order to remain in the program and to graduate, a student must maintain a minimum grade of C in the theory and the clinical portions of the nursing program.
5. Maintain current CPR, TB screening, clear criminal background check and drug screen.

In accordance with state law, the California Board of Registered Nursing (BRN) may deny licensure to an individual for crimes substantially related to the practice of nursing. Upon acceptance to the nursing program, any student who has had a conviction related to sex crimes, drug crimes (including DUI) and crimes of violence may need to contact the BRN regarding his/her status.

Nursing

Nursing Program Prerequisites

To apply to the Registered Nursing Program, the following courses as well as all associate degree level General Education Requirements must be completed with a minimum grade of C.

BIO 004 Human Anatomy	4
BIO 005 Human Physiology	4
BIO 014 Principles of Microbiology	4
CDFS 070 Lifespan Human Development	3
NUTR 010 Nutrition	3
NURS 052 Pharmacology for Nursing	3
PSYC 001 Introduction to Psychology	3
One course from Critical Thinking	3-4

Critical Thinking: (select one course)

COMM 001 Introduction to Public Speaking.....	3
COMM 002 Fundamentals of Persuasive Speaking.....	3
COMM 006 Argumentation and Debate.....	3
ENGL 002 Critical Thinking and Writing About Literature	4

REGISTERED NURSING A.S. REQUIRED COURSES

First Semester Courses (First Year)	Units
NURS 071A Foundations of Nursing I*	6
NURS 071B Foundations of Nursing II*	6
NURS 071S Nursing Simulation Skills Lab I.....	2

Second Semester Courses (First Year)	Units
NURS 072A Medical/Surgical I and Geriatrics*.....	5
NURS 072B Maternal/Neonatal Nursing*.....	5
NURS 072S Nursing Skills Lab II	2

Third Semester Courses (Second Year)	Units
NURS 073 Issues and Leadership in Health Care Today 2	
NURS 073A Medical/Surgical II*	5
NURS 073B Psychiatric and Mental Health Nursing*.....	5
NURS 073S Nursing Simulation and Skills Lab III	1

Fourth Semester Courses (Second Year)	Units
NURS 074A Medical/Surgical III*	6
NURS 074B Pediatric Nursing*.....	5
NURS 074S Nursing Simulation and Skills Lab IV	1

*Concurrent enrollment in corresponding Skills Lab required.

REQUIREMENTS FOR ADMISSION TO THE PROGRAM

Students are encouraged to attend a Registered Nursing Information Workshop prior to seeing a counselor individually. These workshops provide a basic understanding of the nursing program and the requirements for application. After attending the Nursing Information Workshop, students planning to major in Nursing should make an appointment with a counselor for assistance in developing an education plan.

1. Graduation from an accredited high school in the United States or successful completion of the General Education Development (GED) or California High School Proficiency Exam (CHSPE) per requirements of the Nurse Practice Act, Title 16, California Code of Regulations, Section 1412, prior to time of application.
 - Students with a high school diploma from a school outside the United States must have transcripts evaluated by a National Association of Credential Evaluation Service (NACES) approved independent agency.
 - Students who possess an Associate or Arts/Associate of Science degree or higher from a regionally accredited college in the U.S. are exempt from the educational requirements stated above.
 - Students who have attended college outside the United States must have transcripts evaluated by a NACES approved independent agency, demonstrating equivalency to an AA/AS degree or higher from a U.S. regionally accredited college.
2. A Composite Score of 73% or greater. This is calculated using the applicant's College GPA, Core Biology GPA, English GPA and the applicant's Core Biology Repetitions (This includes grades of D or less and W's on the applicant's transcript).
3. Completion of Nursing Program Prerequisites and all general education requirements with a minimum grade of C.
4. Students are required to take the "Test of Essential Academic Skills (TEAS)" developed by the Assessment Technologies Institute. A minimum passing composite score of 62% is required within the first two (2) attempts. Further information can be found on the <http://www.atitesting.com/solutions/pre-program/TEAS-Discover.aspx> website regarding TEAS preparation, registration and testing.
5. First-time applicants are strongly encouraged to meet with an SCC counselor before August of the application year to obtain a NURSING PRE-MAJOR AND GENERAL EDUCATION REQUIREMENT CHECK SHEET and document completion of all eligibility requirements. Call (707) 864-7101 or go online to schedule an appointment.

Nursing

APPLICATION / ACCEPTANCE TO THE PROGRAM

Currently the Nursing Program admits students once per year. Applications are accepted online. Check the SCC Nursing website for specific details and deadlines. <http://www.solano.edu/health/disciplines.php#nursing>

The Nursing Program at Solano Community College is impacted; there are more students who apply than can be accepted into the program. Selection is based on a randomized lottery selection process. Returning qualified applicants will have their name included into the appropriate pool for each time they apply to SCC's nursing program for three (3) consecutive years. If an applicant who has not been selected after 3 years applies a fourth time, he/she will automatically be offered a spot, as long as he/she still meet the requirements for entry. Only students who meet and complete the application criteria will be considered for admission. Meeting these requirements does not guarantee acceptance into the program. If a qualified applicant is not chosen, he/she may apply during the following application period.

Once accepted to the Nursing Program, students, at their own expense, must provide the following:

- Health History and Report of Medical Examination with required titers/inoculations.
- Background check and drug screening
- Current American Heart Association BLS for Healthcare Providers card.
- Compliance with specific healthcare partner requirements.

Students accepted for entry into the Nursing Program are required to attend a mandatory information meeting. Date, time, and location will be provided in the acceptance packet.

APPLICATION GUIDELINES

COMPLETE ALL PRE-MAJOR AND GENERAL EDUCATION COURSES BEFORE SUBMITTING AN SCC NURSING APPLICATION. Transcripts with courses in progress at the time of application will be voided or not accepted. Please refer to the nursing website for more information.

APPLY for admission to SCC online via CCCApply.

- ✓ Students who have never attended SCC must submit a CCCApply application. Go to the SCC home page (www.solano.edu) and click on the green "MySolano" box which reads "Apply, Register, Get Grades, See Schedule & More..."
 - **Note: Returning SCC students who did not attend last semester must** complete a new SCC application before accessing the Nursing Application.
- ✓ **STUDENT ID NUMBER.** After submitting a CCCApply application, allow 30 minutes for processing. An email will be sent to the email address provided in the application and it will include the applicant's SCC ID number, username and password for the applicant's MySolano account. An SCC email address will then be available; this address must be used for all correspondence and when applying to the Registered Nursing program itself.
 - When completing a CCCApply application to Solano, if an applicant already has an SCC ID number, the system will re-activate the same ID number. After this step, the applicant can complete the online Registered Nursing (RN) application.
- ✓ **MYSOLANO EMAIL ACCOUNT.** All correspondence regarding the application status will be sent to the **email address you provide in your online application.** We strongly recommend that you use your Solano student email address when you establish your application account online and use *only* that email address for *all* communications going forward. Please check that email frequently for important messages from the College and/or the program.

Nursing

COUNSELING SERVICES FOR FIRST-TIME NURSING APPLICANTS.

An appointment with a Solano Community College (SCC) Counselor before August of the application year is strongly encouraged to obtain a Nursing Pre-Major and General Education Requirement Check Sheet to document completion of all eligibility requirements. This is especially important when coursework is not completed at SCC. A copy of this document can be found at: <http://www.solano.edu/health/disciplines.php#nursing>

NOTE: If you have earned a BA/BS or AA/AS degree from a regionally accredited institution in the US or Canada, your General Education (GE) requirements are complete. A Counselor can help determine if you have met *all* requirements.

- ✓ **Counseling Appointment:** Call (707) 864-7101 to schedule an appointment with a Counselor. If you have 15 or more units from other colleges, you will need to schedule a one-hour appointment with an SCC Counselor. During the appointment, the Counselor will work with you to review the *Nursing Pre-Major and General Education Requirement Check Sheet*, petitioning of course equivalencies and degree completion requirements. Official sealed transcripts from other colleges should be brought to this appointment, if they have not been submitted previously.
- ✓ **Express Counseling:** : If you have a general counseling question not related to specific program prerequisites that would entail minimal research and can be solved in a couple of minutes, please come to the Counseling front desk (Bldg. 400), call (707) 864-7101, or chat with our staff online at <http://www.solano.edu/counseling/ecounseling.php>.

TO APPLY TO THE NURSING PROGRAM AT SCC:

- ✓ Complete the Nursing Application available on the Registered Nursing website during an open application period (September 1 through September 30 every year for a Fall start the following academic year).
 - **Remember to have your SCC ID number, Nursing Pre-Major and General Education Requirement Check Sheet – signed and dated by an SCC Counselor if you met with one, your Solano email address, and proof of high school graduation available.**
 - **All required information for admission to the Registered Nursing program MUST be uploaded to the application.**

ONCE THE APPLICATION IS SUBMITTED:

- ✓ **Email Account:** All correspondence regarding the application status will be sent to the **email address you provide in your online application**. We strongly recommend that you use your Solano student email address when you establish your application account online and use *only* that email address for *all* communications going forward. Please check that email frequently for important messages from the College and/or the Program. Applicants will *not* receive *any phone verification* regarding their status. Please send any changes of address to registered.nurse@solano.edu and enter them online in your MySolano account.
- ✓ **Permanent Address:** The Program may also send letters via U.S. Postal Service to your permanent address as provided in your application. Please send any changes of address to registered.nurse@solano.edu and enter them online in your MySolano account.
- ✓ New applications will be evaluated following the close of the open application period. Applicants should expect to receive notification of their status in February.

Nursing

LVN to RN Program

The policies and procedures for the Solano Community College LVN to RN program are currently under revision. Interested individuals can obtain more information and future updates at:

<http://www.solano.edu/health/disciplines#mobility>

LVN to RN Thirty-Unit Option

Thirty-Unit Option

By choosing this option:

- You would complete a total of 29-30 units.
- You would not be a graduate of an Associate Degree Program.
- You would not be a graduate of the Solano Community College Nursing Program and may not wear the school pin.
- You would be eligible for licensure in California and may not be eligible for licensure in other states.

Prerequisites

- BIO 004 - Human Anatomy (5 units)
- BIO 005 - Introductory Physiology (5 units)
- BIO 014 - Principles of Microbiology (4 units)

Additional information will be posted on the Program website:

<http://www.solano.edu/health/disciplines#mobility>

Please note: LVNs wishing to become RNs are also eligible and encouraged to apply to the generic RN Program or A.D.N. track where matriculation would begin during the 1st semester with A.D.N. cohort at Solano Community College. Interested individuals can obtain more information about the A.D.N. program at:

<http://www.solano.edu/health/disciplines#nursing>

Certified Nursing Assistant Job-Direct Low Unit Certificate

The required courses must be completed with a minimum grade of C.

Required Courses	Units
NURS 103 Certified Nursing Assistant.....	6.5
Total Units	6.5

Nursing

NURS 052 Pharmacology for Nursing

3.0 Units

Prerequisite: BIO 005 with a minimum grade of C

Course Advisory: Basic computer navigation skills and frequent internet access is required

Transferable to CSU

Hours: 48-54 lecture

Nursing or Pre-nursing Students. Designed to focus on nursing pharmacology by presenting a firm theoretical foundation. The course presents general principles, theories, and facts about medicinal agents. General characteristics of major classifications of medications are discussed. Specific information regarding action, dosage, side effects, adverse reactions and contraindications of selected medications within each classification is addressed. Practical information is presented on how the nursing process is integrated with pharmacology. Specific drug information is discussed in relation to assessment, client monitoring, interventions, client education, and evaluation of safe and effective drug therapy.

NURS 065 Role Transition in Practice

2.5 Units

Corequisite: NURS 064

Prerequisite: NURS 063 with a minimum grade of C

Course Advisory: Basic computer navigation skills and frequent internet access is required.

Transferable to CSU

Hours: 120-135 lab

The final course in the nursing sequence. The focus of this course is on nursing care and first level management / leadership skills in caring for groups of hospitalized patients. Emphasis is placed on team management skills in acute care settings. The registered nurse preceptor directly supervises the student under the guidance of the nursing faculty liaison. Professional development skills, as well as current issues in nursing, are applied. This course focuses on managing groups of patients with respect to the individual's cultural / religious beliefs related to wellness, illness and health care practice. Clinical application of both previously learned theory and skills are applied in various healthcare agencies.

NURS 071A Foundations of Nursing I

6.0 Units

Prerequisite: Admission to the Registered Nursing Program

Corequisite: NURS 071S

Transferable to CSU

Hours: 64-72 lecture, 96-108 lab

Introduction to the foundational concepts that guide nursing practice for safe, humanistic, patient-centered care to a diverse patient population across the lifespan. Additional concepts on which the curriculum is built including legal and ethical responsibilities of the nurse, caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice are also introduced. Concepts related to the individual patient that are used throughout the nursing program are defined with select concepts as the focus for patient care. Application of knowledge and skills occurs in a variety of clinical settings providing care to stable adult patients with common health alterations. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms, and nursing equipment.

NURS 071B Foundations of Nursing II

6.0 Units

Prerequisite: NURS 071A with a minimum grade of C. Corequisite:

NURS 071S

Transferable to CSU

Hours: 56-63 lecture, 120-135 lab

Introduction to the foundational concepts that guide nursing practice for safe, humanistic, patient-centered care to a diverse patient population. Additional concepts on which the curriculum is built including legal and ethical responsibilities of the nurse, caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice are also introduced. Concepts related to the individual patient that are used throughout the nursing program are defined with select concepts as the focus for patient care. Application of knowledge and skills occurs in a variety of clinical settings providing care to stable adult patients with common health alterations. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

Nursing

NURS 071S Nursing Simulation and Skills Lab I 2.0 Units

Prerequisite: Admission to Registered Nursing Program

Corequisite: NURS 071A and NURS 071B

Transferable to CSU

Hours: 16-18 lecture, 48-54 lab

Presents the basic skills and simulations used in nursing practice for safe, humanistic, patient-centered care to a diverse patient population. The student will learn and practice these psychomotor skills in preparation for application in the clinical setting. As the skills are learned, consideration is given to the legal and ethical responsibilities of the nurse, caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills lab and the simulation lab. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 072A Medical/Surgical I and Geriatrics 5.0 Units

Prerequisite: A minimum grade of C in NURS 071A, NURS 071B and a grade of Pass in NURS 071S

Corequisite: NURS 072S

Transferable to CSU

Hours: 40-45 lecture, 120-135 lab

Applies the foundational concepts of nursing practice introduced in NURS 071A & 071B. This course applies safe, humanistic, patient-centered care to a diverse patient population focusing on wellness and acute conditions of patients on the medical/surgical units and the elderly. Concepts related to the individual patient introduced in NURS 071A and 071B are applied with additional select concepts that focus on care of patients on the medical/surgical units and the elderly. Application of knowledge and skills occurs in a variety of clinical settings providing care to the elderly and adults experiencing acute conditions requiring medical/surgical interventions. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 072B Maternal-Newborn Nursing 5.0 Units

Prerequisite: A minimum grade of C in NURS 071B and NURS 071S

Corequisite: NURS 072S. Applies the foundational concepts of nursing practice introduced in NURS 071A & 071B

Transferable to CSU

Hours: 40-45 lecture, 120-135 lab

Applies safe, humanistic, patient-centered care to a diverse patient population focusing on wellness and acute conditions of patients on the Maternal/Child Units. Concepts related to the individual patient introduced in NURS 071A and 071B are applied with additional select concepts that focus on care of patients on the maternal/child. Application of knowledge and skills occurs in a variety of clinical settings providing care to the childbearing family experiencing conditions requiring interventions. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 072S Nursing Simulation and Skills Lab II 2.0 Units

Prerequisite: A minimum grade of C in NURS 071B and a grade of Pass in NURS 071S

Corequisite: NURS 071A and NURS 071B

Transferable to CSU

Hours: 16-18 lecture, 48-54 lab

Building on the content presented in Nursing Skills Lab I with a focus on developmentally and culturally appropriate therapeutic interventions in the care of the childbearing family, patients requiring medical/surgical interventions, and the elderly. Includes application of the concepts of caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills lab and the simulation lab. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

Nursing

NURS 073

Issues and Leadership in Health Care Today

Prerequisite: A minimum grade of C in NURS 072A, 072B and 072S

Corequisite: NURS 073S

Transferable to CSU

Hours: 32-36 lecture

Facilitates the nursing student's entry into the profession of nursing. Topics include current issues, trends and leadership theories in the registered nurse's scope of practice in an ever-changing health care delivery system. Included is the delineation of the major functions of professional nursing organizations, accountability in nursing practice (quality improvement and risk management), identification of socio-political factors as well as leadership and management issues influencing professional nursing practice and their nursing implications. Legal and ethical concepts and responsibilities related to registered nursing practice are further considered. This is a non-clinical course. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents.

NURS 073A Medical/Surgical II

5.0 Units

Prerequisite: A minimum grade of C in NURS 072A and NURS 072B, and a grade of Pass in NURS 072S

Corequisite: NURS 073S

Transferable to CSU

Hours: 40-45 lecture, 120-135 lab

Applies the concepts of nursing practice presented in NURS 071 and 072 and focuses on additional concepts for safe, humanistic, patient-centered care to a diverse patient population focusing on wellness and acute (stable and unstable) and chronic conditions of patients requiring medical/surgical interventions. Application of knowledge and skills occurs in a variety of clinical settings with an emphasis on expanding the student's ability to focus on the legal and ethical responsibilities of the nurse, caring, critical thinking/clinical reasoning, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

2.0 Units

NURS 073B

Psychiatric and Mental Health Nursing

Prerequisite: A minimum grade of C in NURS 072A and NURS 072B

Corequisite: NURS 073S

Transferable to CSU

Hours: 40-45 lecture, 120-135 lab

Applies the concepts of nursing practice presented in NURS 071 & 072 A & B and focuses on additional concepts for safe, humanistic, patient-centered care to a diverse patient population focusing on acute and chronic conditions of patients requiring mental health interventions. The focus of this course is to provide students opportunities to evaluate and address the biopsychosocial needs of the psychiatric patient. Application of knowledge and skills occurs in a variety of clinical settings with an emphasis on expanding the student's ability to focus on the legal and ethical responsibilities of the nurse, caring, critical thinking/clinical reasoning, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

5.0 Units

NURS 073S

1.0 Unit

Nursing Simulation and Skills Lab III

Prerequisite: A minimum grade of C in NURS 072A and 072B, and a grade of Pass in NURS 072S

Corequisite: NURS 073A and NURS 073B

Transferable to CSU

Hours: 8-9 lecture, 24-27 lab

Builds on the content presented in NURS 071S and 072S with a focus on developmentally and culturally appropriate therapeutic interventions in the care of patients with acute (stable and unstable) and chronic medical and psychiatric conditions requiring medical/surgical and mental health interventions. Includes application of the concepts of caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills lab and the simulation lab. Internet Access required. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

Nursing

NURS 074A Medical/Surgical III

6.0 Units

Prerequisite: A minimum grade of C in NURS 073A and NURS 073B and a grade of Pass in NURS 073S

Corequisite: NURS 074S

Transferable to CSU

Hours: 48-54 lecture, 360-405 lab

Applies the concepts of nursing practice presented in NURS 071, 072 & 073 A& B then focuses on additional concepts for safe, humanistic, patient-centered care to a diverse patient population focusing on wellness and patients with acute, complex conditions requiring medical/surgical interventions. The focus of NURS 074A is to provide students opportunities to integrate all program concepts to the care of adult patients with complex healthcare needs. Application of knowledge and skills occurs in a variety of clinical settings. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 074B Pediatric Nursing

5.0 Units

Prerequisite: A minimum grade of C in NURS 073A and NURS 073B and a grade of Pass in NURS 073S

Corequisite: NURS 074S

Transferable to CSU

Hours: 40-45 lecture, 120-135 lab

Applies the concepts of nursing practice presented in NURS 071, 072, and 073 A&B then focuses on additional concepts for safe, humanistic, patient-centered care to a diverse patient population focusing on wellness for a pediatric patient. This course also applies nursing concepts to the care of children. The focus is to provide students opportunities to integrate all program concepts to the care of pediatric patients. Application of knowledge and skills occurs in a variety of clinical settings. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 074S

Nursing Simulation and Skills Lab IV

1.0 Unit

Prerequisite: A minimum grade of C in NURS 073A and NURS 073B and a grade of Pass in NURS 073S

Corequisite: NURS 074A and NURS 074B

Transferable to CSU

Hours: 8-9 lecture, 24-27 lab

Builds on the content presented in NURS 071S, 072S & 073S with a focus on developmentally and culturally appropriate therapeutic interventions in the care of patients with acute and chronic complex conditions requiring medical/surgical interventions and the care of children. Includes application of the concepts of caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills lab and the simulation lab. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 103 Certified Nursing Assistant

6.5 Units

Prerequisite: Applicants must be at least 16 years old

Hours: 64-72 lecture, 128-144 lab

Basic computer navigation skills and frequent internet access is required. Prepares the student to function in the role of Certified Nursing Assistant in the acute care, long-term care, and home health settings. Students must apply to the CNA program through Solano Community College's Office of Admissions and Records, as well as attend a mandatory information session prior to the beginning of class.

NURS 104 Home Health Aide

2.0 Units

Prerequisite: NURS 103 with a minimum grade of C (may enroll concurrently)

Hours: 24-27 lecture, 24-27 lab.

An extension of the nursing assistant training. It is a didactic model that addresses the transition of skills from an institutional environment to the home setting. The course consists of nine modules, 20 hours classroom instruction including use of state curriculum, lectures, videos and discussion.

Nursing

NURS 105 Acute Care Nursing Assistant

Prerequisite: NURS 103 with a minimum grade of C

Hours: 24-27 lecture, 30-33.75 lab

A focus on patients with acute illness or short-term illness or injury. This course prepares current CNAs to work in an emergency room or other short-term care facility, assisting registered nurses (RNs) and other health care personnel. Students refine skills learned in the general or long-term care CNA courses, such as measuring vital signs. Certified nursing assistants in this class become skilled at observing patients for discomfort, pain and learning how to apply basic knowledge and skills to delivery quality patient care. The CNA acute care curriculum also covers anatomy and physiology, infection control and safety procedures in an acute care setting. This course is typically taken by current CNAs. It is commonly referred to as a CNA level 2 course. The nurse assistant is an important member of the health care team. The nurse assistant, under the direct supervision of licensed nursing personnel, provides direct care to the resident; promotes comfort measures, and collects, records and reports data.

2.0 Units

NURS 111 Medical Terminology

Hours: 48-54 lecture

Basic computer navigation skills and frequent internet access is required. A study of the language of medicine. The student will develop a working knowledge of terms, word roots, and abbreviations related to structure and functioning of the systems of the body as they pertain to medical practice.

3.0 Units

Nutrition for Transfer (AS-T)

CAREER PATHS:

Dietitian
 Nutritionist
 Animal Scientist
 Fitness and Wellness

Additional Career Paths and related data, including state-by-state wage info and growth in the field, can be found at www.onetonline.org.

This program map represents one possible pathway. See a counselor to create a customized education plan. Map is for the **2019-2020** catalog year.

1 FIRST SEMESTER

Total Recommended Units: 14

- NUTR 010** 3 units
Nutrition
- ENGL 001** 4 units
College Composition (IGETC 1A)
- LR 010** 1 units
Introduction to Library Research and Information Competency
- IGETC 4/Am Inst Grp 1** 3 units
Suggested: PLSC 001 or 005
- Transferable Elective** 3 units
Course #001 - 049

2 SECOND SEMESTER

Total Recommended Units: 14

- PSYC 001** 3 units
Introduction to Psychology (IGETC 4)
- MATH 011** 4 units
Statistics (IGETC 2)
- IGETC 1B** 4 units
Suggested: ENGL 002 or 004
- IGETC 3B/Am Inst Grp 2** 3 units
Suggested: HIST 017 or 018 or 028 or 029 or 037

3 THIRD SEMESTER

Total Recommended Units: 17

- CHEM 001 (L)** 5 units
General Chemistry (IGETC 5A)
- Nutrition List B of ADT (IGETC 4)** 3 units
- IGETC 1C** 3 units
Suggested: COMM 001, COMM 002, or COMM 006
- IGETC 3A** 3 units
Suggested: ART 012 or CINA 011 or MUSC 013 or THEA 013
- Transferable Elective** 3 units
Course #001 - 049

4 FOURTH SEMESTER

Total Recommended Units: 15

- BIO 001** 4 units
Microbiology (IGETC 5B)
- CHEM 002** 5 units
General Chemistry
- IGETC 3A or 3B** 3 units
- Transferable Elective** 3 units
Course #001 - 049

Required Courses/Courses in Discipline GE Courses/Categories



SOLANO
COMMUNITY COLLEGE

Nutrition

Associate in Sciences for Transfer
 GE Pattern: IGETC
 Program Total Units: 60

For more information
 please contact:
 (707) 864-7108

GET STARTED NOW!

▶ **Get started on your Pathway now with these recommended courses!**

Then – See a counselor to create a **CUSTOMIZED** education plan personalized to your career and transfer goals!

▶ Required courses may change depending on a student's career and transfer goals, including requirements for cross-cultural and foreign language courses, and/or specific requirements for an individual CSU or UC.

Unique transfer requirements for a specific institution can be found at www.assist.org.

LET US HELP YOU!

How to Apply: solano.edu/ar/apply.php

- **Questions? Talk to a Counselor Now!**
 Main Campus, Fairfield: (707) 864-7101
 Vacaville Center: (707) 863-7836
 Vallejo Center: (707) 642-8188
 Travis AFB: (707) 863-7878
 Visit online at solano.edu/counseling
- **Contact Our Career Center to Learn Your Career Options!**
 Call 707-864-7124, or email at CareerCenter@solano.edu
 Visit online at solano.edu/career
- **You Can Afford College! Learn more about Financial Aid!**
 Call 707-864-7103, or email at FinancialAid@solano.edu
 Visit online at solano.edu/financial_aid
- **College is Accessible!** Contact our Disability Services Program (DSP) at 707-864-7136.

2020-2021 catalog year Pathways coming soon.

Nutrition

Associate in Science in Nutrition for Transfer (A.S.-T)

Program Description

The Associate in Science transfer degree is designed to meet the general education requirements at California State Universities and prepare students for a Bachelor of Science degree in Nutrition and Food Science. The program will prepare individuals to integrate and apply the principles of the food and nutrition sciences, human behavior, and the biomedical sciences to design and manage effective nutrition programs. Students will learn how to utilize food for human growth and development in a variety of settings including health care organizations, food service operations, business and industry (product development, marketing, consulting), education and research, health promotion and private practice counseling.

Associate in Science in Nutrition for Transfer

The Associate in Science in Nutrition for Transfer (AS-T in Nutrition) is designed to prepare students for transfer into the CSU system to complete a Bachelor of Science degree in Nutrition.

To earn the Associate in Science in Nutrition for Transfer degree, students must:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

ADTs also require that students earn a minimum grade of C in all courses required for the major or area of emphasis.

Program Outcomes

Upon completion of the A.S.-T in Nutrition students will be able to:

1. Explain the principles of nutrition and its effect on health and wellness.
2. Analyze a diet for adequacy, balance, and moderation.
3. Demonstrate an understanding of the relationships between chemistry, biology and nutrition

REQUIRED COURSES	Units	CHEM 002 General Chemistry II.....	5
BIO 014 Principles of Microbiology	4	CHEM 003 Organic Chemistry	5
NUTR 010 Nutrition	3	MATH 011 Elementary Statistics	4
PSYC 001 Introduction to Psychology	3		
One or Two courses from List A.....	5-10	List C:	Units
One or Two courses from List B**	4-10	ANTH 002 Cultural Anthropology	3
One course from List C.....	3	PSYC 002 Biological Psychology.....	3
Total Units	27-28	SOC 001 Introduction to Sociology	3
List A: (select one to two courses).....	Units	Required Major Total Units	27-28
CHEM 001 General Chemistry I	5	CSU General Education or IGETC Pattern Units ...	37-39
or		CSU Transferable Electives (as needed to reach 60	
CHEM 001 General Chemistry I	5	transferable units)*	5-12
and		Total Degree Units	60
CHEM 002 General Chemistry II.....	5		
List B: (select one or two courses**)	Units		
BIO 004 Human Anatomy	5		
or			
BIO 005 Human Physiology	5		

**10-18 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.*

***select one course if CHEM 001 + CHEM 002 is completed in List A or select two courses if only CHEM 001 is completed in List A.*

Nutrition

NUTR 010 Nutrition

General Education: Option A: Area A; Option C: Area E

Transferable to UC/CSU

Hours: 48-54 lecture

Study of the scientific concepts of human nutrition. Essential nutrients, functions, chemical compositions of foods and their utilization in the body will be covered. The course will emphasize topics such as weight loss, sports nutrition, food safety, the diet-disease relationship, global nutrition, and analysis of special nutritional requirements during the lifecycle among others. Students utilize computer technology and nutritional assessment methods to evaluate personal dietary habits. (C-ID NUTR 110)

3.0 Units

NUTR 054 Child Health, Safety, and Nutrition 3.0 Units

Course Advisory: CDFS 038; CDFS 062

General Education: Option C: Area E

Transferable to CSU

Hours: 48-54 lecture

Introduction to the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development for all children. This is the same course as CDFS 054.

NUTR 012

0.5 to 2.0 Units

Evaluating Current Topics in Nutrition

Transferable to CSU

Hours: 8-36 lecture

Methods of evaluating current nutritional topics, determining reliable and unreliable sources of information and judging validity of experimental design. This course provides opportunities to study current, controversial topics in nutrition. Course topics include, but are not limited to, vitamin and mineral supplements, weight loss fads, phytochemicals and foods as medicine.

Occupational Education

Soft Skills for Technicians Job-Direct Low Unit Certificate

The required courses must be completed with a minimum grade of C.

REQUIRED COURSES	Units
OCED 070 Occupational Soft Skills	1.5
OCED 071 Occupational Portfolio Development	1.5
IT 140 Industrial Materials.....	3
IT 151 Vocational Mathematics	3
3 units from List A	3
Total Units	12

List A: (select 3 units)	Units
ATEC 070 Automotive Fundamentals	3
CIS 001 Introduction to Computer Science	3
CIS 050 Microcomputer Applications	3
DRFT 079 Blueprint Reading.....	3
IT 050 Alternative Energy Technologies	3
IT 101 Introduction to Mechatronics	3
IT 110 Modern Welding.....	3
OCED 090 Occupational Work Experience	3
OCED 091 General Work Experience	3

OCED 070 Occupational Soft Skills 1.5 Units

Transferable to CSU
Hours: 24-27 lecture

Covers the critical tools to help occupational students develop the employability or soft skills needed for a smooth transition to the work force based on the Secretary's Commission on Achieving Necessary Skills (SCANS). Topics include practical elements required to meet employer expectations, create cooperative co-worker interactions and development of positive personal characteristics. This is not a work experience course.

OCED 071 Occupational Portfolio Development 1.5 Units

Transferable to CSU
Hours: 24-27 lecture

Students will identify personal strengths and weaknesses in key skill areas and develop a plan for obtaining the skills they need. Professional and educational samples will be collected, categorized, and evaluated. Students will analyze how the career portfolio can be used as a tool for the job search as well as career advancement. An electronic career portfolio will be completed by the end of this course. Students will be learning a portfolio development software tool (Portfolium or similar tool) and will be required to have and be able to upload documentation of work and educational achievements.

Occupational Education

OCED 090

1.0 to 16.0 Units

Occupational Work Experience

Corequisite: Student must be working (paid or unpaid) from 5 to 40 hours per week for a licensed business for a total of 75 hours per unit for paid work and 60 hours per unit for unpaid work. Duties must be directly related to student's declared major.

Transferable to CSU

Supervised employment extending classroom-based occupational learning at an on-the-job learning station related to the student's educational or occupational goal. Student must be working (paid or unpaid) in a job, volunteer, or internship position for a legal business or nonprofit agency and can identify a workplace supervisor to assist in identifying and evaluating workplace semester goals. Student must remain employed for the duration of the semester. Work must be directly related to the declared major. Students will attend a weekly coordination seminar and develop job-oriented objectives at their worksite. Students will complete Title 5 Education Code Documents (Agreement, Application, Learning Objectives, Timesheet, Supervisor's Evaluation) that document the student's progress and hours spent in the workplace; and development of workplace soft skills and employability skills relevant to the 21st Century Workplace. Learning objectives will be developed in collaboration between the student, employer, and Work Experience instructor to best meet the student's level of learning. 1 unit of credit may be earned for each 75 hours paid or 60 hours unpaid work during the semester to a maximum of 8 units per semester. Students wishing to continue OCED 090 in subsequent semesters must contact the Work Experience Coordinator for enrollment assistance. Financial Aid and Veterans may have other limits on the number of times this course may be taken. Up to 12 units of Occupational Work Experience may transfer to CSU as elective credits. This course may not be taken concurrently with any other work experience, fieldwork, or practicum course. Course may be taken up to the maximum number of units over multiple semesters (total of all work experience courses cannot exceed 16 units).

OCED 091 General Work Experience 1.0 to 16.0 Units

Corequisite: Student must be working from 5-30 hours or more per week for a licensed business for a semester total of 75 hours per unit for paid work and 60 hours per unit for unpaid work. Job does not need to be related to major.

Transferable to CSU

Supervised employment that is intended to assist students in acquiring desirable work habits, attitudes, and career awareness. The student must be working (paid or unpaid) for a legal business or nonprofit agency and can identify a workplace supervisor to assist in identifying and evaluating workplace semester goals. Student must remain employed for the duration of the semester. Work does not need to be related to declared major. Student will attend a weekly coordination seminar and develop job-oriented objectives at their work-site. Student will complete Title 5 Education Code Documents (Agreement, Application, Learning Objectives, Timesheet, Supervisor's Evaluation) that document the student's progress and hours spent in the workplace; and development of workplace soft skills and employability skills relevant to the 21st Century Workplace. Learning objectives will be developed in collaboration between the student, employer, and Work Experience instructor to best meet the student's level of learning. 1 unit of credit may be earned for each 75 hours paid or 60 hours unpaid work during the semester to a maximum of 6 units per semester. Students wishing to continue OCED 091 in subsequent semesters must contact the Work Experience Coordinator for enrollment assistance. Financial Aid and Veterans may have other limits on the number of times this course may be taken. Up to 6 units of General Work Experience may transfer to CSU as elective credits. This course may not be taken concurrently with any other work experience, fieldwork, or practicum course. Course may be taken up to the maximum number of units over multiple semesters (total of all work experience courses cannot exceed 16 units).

Philosophy

Program Description

The philosophy program consists of one comprehensive survey course augmented by special courses in critical thinking, ethics, political philosophy, and religion. All constitute a basic and well-rounded introduction to philosophy. Each course presumes no prior study of philosophy. The courses do not lead to a certificate, degree or transfer agreement in themselves. However, these courses may apply to other programs and may also be used toward lower division general education.

PHIL 001

3.0 Units

Introduction to Critical Thinking and Reasoning

Course Advisory: ENGL 001

General Education: Opt. A: Area D3; Opt. C: Area A3

Transferable to UC/CSU

Hours: 48-54 lecture

Study of logical thinking and reasoning in everyday life. Emphasis is on informal logic in contrast to formal symbolic logic. Special attention is given to 'computer literacy' and 'educational television.' Critical reading and writing is required. The course does not fulfill the IGETC critical thinking requirement.

PHIL 003 Introduction to Philosophy

3.0 Units

Course Advisory: ENGL 001

General Education: Opt. A: Area C; Opt. B: Area 3B; Opt. C: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

General introduction to the central methods and recurring problems in the Western philosophical tradition. Topics of inquiry are theories of knowledge, theories of existence, philosophy of religion, free will and determinism, and the mind-body problem. (C-ID PHIL 100)

PHIL 004 Introduction to Moral Philosophy

3.0 Units

Course Advisory: ENGL 001

General Education: Opt. A: Area C; Opt. B: Area 3B; Opt. C: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to moral philosophy and major ethical theories of the Western philosophical tradition. Critical reading and writing are required.

PHIL 005

3.0 Units

Critical Thinking: The Philosophic Grounds of Literacy

Prerequisite: ENGL 001

General Education: Opt. A: Area C; Opt. C: Area A3

Transferable to UC/CSU

Hours: 48-54 lecture

Educates students in the fundamental principles of sound and cogent thinking and reasoning expressed primarily in argumentative essays. More specifically, the course is a practicum in critical literacy, i.e., the written practice and refinement of fundamental skills and dispositions required in effective argumentation, critical analysis and evaluation, conceptual inquiry, and discursive expression in general. The study of exemplary argumentative writings from a variety of philosophical, social, and political sources is integral. Objective exams and critical essays are required. This course fulfills the IGETC critical thinking requirement.

PHIL 006 Introduction to Political Philosophy

3.0 Units

Course Advisory: ENGL 001

General Education: Opt. B: Area 3B, 4; Opt. C: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

An inquiry into fundamental political concepts in political thought (e.g. justice, freedom, equality, power, authority, obligation and citizenship) as expressed by major political thinkers. Includes the study of basic skills, criticisms, and methods in political inquiry relevant to the life and education of citizens. Critical reading and writing is required.

PHIL 400 Bioethics

3.0 Units

Prerequisite: Admission into the Biomanufacturing degree program;

Permission of faculty; ENGL 001, MATH 011

Hours: 48-54 lecture

Builds upon a philosophical and critical thinking foundation to train students to be able to model sound ethical decision making in the life science and medical fields. The course requires application of moral theory to a variety of problems in the life science and medical fields such as: genetic engineering, stem cells, allocation of resources, medically assisted dying, genetic screening, genetic alteration, abortion and reproductive rights, and experiments on human or animal subjects. Enrollment in this upper division General Education course is limited to students enrolled in the Bachelors of Science in Biomanufacturing program.

Photography

Photography, Professional

Program Description

Pre-employment training in professional photography is designed to prepare students for self-employment and employment in the private and public sectors and covers a broad spectrum of photographic fields, e.g., advertising illustration, industrial, portraiture, medical, commercial, photojournalism, and landscape.

Certificate of Achievement and Associate in Arts Degree

A Certificate of Achievement can be obtained upon completion of the 24-unit major. The Associate in Arts Degree can be obtained by completing the 24-unit major, SCC General Education - Option A, and electives. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Photography, Professional Certificate of Achievement/ Associate Degree will be able to:

1. Demonstrate full knowledge of the technical aspects of photography, including camera operations, exposure, lighting, and post-production, including software applications and printing.
2. Integrate conceptual elements with aesthetic and technical skills to create cohesive and memorable photographs.
3. Conceive and produce a coherent portfolio of original work that meets department and professional industry standards.
4. Demonstrate an understanding of industry trends and professional practices related to a career in photography.

REQUIRED COURSES	Units
PHOT 029 Introduction to Photography	3
PHOT 032 Digital Imaging	3
PHOT 151 Professional Photography: Introduction	3
PHOT 156 Portfolio Development	3
6 units from List A.....	6
6 units from List B	6
Required Major Total Units	24

List A: (select 6 units)	Units
PHOT 152 Professional Photography: Portraiture	3
PHOT 153 Professional Photography: Product and Advertising	3
PHOT 154 Professional Photography: Interior & Exterior	3

List B (select 6 units)	Units
PHOT 030 Beginning Film Photography	3
PHOT 031 Intermediate Photography	3
PHOT 035 Art of Photography.....	3
PHOT 040 Alternative Photography	3
PHOT 045 DSLR Videography.....	3
PHOT 056 Photojournalism & Documentary Photography	3
PHOT 161 Workshop: Camera Intensive.....	1
PHOT 162 Workshop: Portraiture and Studio Lighting..	1
PHOT 163 Landscape and Nature Photography.....	1
Solano General Education	21
Electives (as needed to reach 60 units)	15
Total Degree Units Solano GE	60

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Professional Photography."

Photography

Photo Illustration

Program Description

Students learn a range of photographic, design and graphic design skills, including camera operation, light control, principles of color and composition for 2 dimensional work, and a range of industry standard software programs and applications. Professional practices and career paths are explored and all students complete a portfolio of work to prepare them for entry into the job market.

Career Opportunities

Social media content manager, web development and management, retouching, photo editor, advertising and promotional designer.

Certificate of Achievement

A Certificate of Achievement can be obtained upon completion of the 24-unit major. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Photography, Professional Certificate of Achievement / Associate Degree will be able to:

1. Professional level proficiency in utilizing photography and graphic design to create expressive original works, appropriate for use in various applications including fashion and editorial, advertising and fine art.
2. Working knowledge of current graphic design and photographic software programs, including specific understanding of the strengths and appropriate applications of each program and an ability to work between the programs for strong outcomes.
3. Complete a professional portfolio and accompanying promotional materials appropriate for use in seeking employment in areas of design and media, such as advertising, editorial and fashion production, fine art and social media.

REQUIRED COURSES	Units
ART 007 Design Color	3
ART 054A Graphic Design I	3
ART 046 Illustration I	3
PHOT 029 Introduction to Photography	3
PHOT 032 Digital Imaging	3
PHOT 158 Photo Illustration	3
One course from Photo Electives	3
One course from Graphic Design and Art Electives	3
Required Major Total Units	24

Photo Electives: (select one course)	Units
PHOT 031 Intermediate Photography	3
PHOT 045 DSLR Videography	3

Graphic Design and Art Electives	Units
ART 045B Graphic Design II.....	3
ART 045C Typography	3
ART 046C Illustration II	3

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Photo Illustration."

PHOT 029 Introduction to Photography 3.0 Units

Hours: 32-36 lecture, 48-54 lab

An introduction to photography, including a brief history and discussion of image composition, camera usage, workflow and output options. Most of the course will concern digital cameras and processes, but there will be a short component on film photography. This course is a prerequisite to the Professional Photography program and most other photography courses. Students will have access to the department labs. DSLR (Digital Single Lens Reflex) camera is required. Department has some cameras for loan to students who cannot supply their own camera. (formerly PHOT 070)

PHOT 030 Beginning Film Photography 3.0 Units

Course Advisory: PHOT 035; ART 011

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Introduction to black and white film photography. Includes a brief history and discussion of image composition, with special emphasis on darkroom techniques, photographic principles and materials. Camera equipment is essential for this course and there are a substantial number of cameras for loan. SLR 35mm film camera and related materials are required. Field trip may be required.

Photography

PHOT 031 Intermediate Photography

3.0 Units

Prerequisite: PHOT 029 with a minimum grade of C

General Education: Option C: Area C1

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Further develops a student's basic technical and visual skills with an emphasis on continued visual literacy. Students will work primarily with digital cameras, with the option to complete some projects with a film camera. A DSLR camera is required. The photo department has cameras available for loan for students who are unable to provide their own equipment.

PHOT 032 Digital Imaging

3.0 Units

Prerequisite: PHOT 029 with a minimum grade of C.

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

A comprehensive exploration of the management and development of digital photos, including the use of contemporary, industry standard software to catalog, optimize and transform images. Best practices, from capture to printing, will be covered and personal vision and creativity will be emphasized. SLR digital camera required. The department has some cameras for short term loan for students who have difficulty acquiring their own. (Formerly PHOT 071)

PHOT 035 The Art of Photography

3.0 Units

Course Advisory: ENGL 001; ART 011

General Education: Opt. A: Area C; Opt. B: Area 3A; Opt. C: Area C1

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to photography and visual literacy through a survey of historical and contemporary movements and photographers. Students will complete photo assignments related to course content to deepen their understanding of the concepts. Camera equipment is not provided by the college. Students registering for this class may use any film or digital camera to complete assignments. Access to a film or digital camera is required to complete some assignments. Any camera is acceptable. Field trips may be required.

PHOT 040 Alternative Photography

3.0 Units

Course Advisory: PHOT 035; ART 038

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Experiment with alternative photographic and non-photographic materials to create visual images. Camera equipment is not provided by the college.

PHOT 045 DSLR Videography

3.0 Units

Course Advisory: PHOT 029 with a minimum grade of C; ENGL 001

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Augments the professional photography courses with the ability to create digital video content via a DSLR camera. DSLR camera is required.

PHOT 056

3.0 Units

Photojournalism & Documentary Photography

Prerequisite: A minimum grade of C in PHOT 030 or PHOT 070

Hours: 32-36 lecture, 48-54 lab

Transferable to CSU

Covers aspects of the camera as an editorial, journalistic and documentary tool. Covered are news and feature photography and photographic essays, including composition, impact, and creativity, for newspapers, magazines, Internet and other mass communications media. A camera is not provided by the College for this course. SLR film or SLR digital camera required. (C-ID JOUR 160)

PHOT 130L Film Photography Practicum

1.0 Unit

Corequisite: PHOT 030

Hours: 48-54 lab

Takes place in the photography darkroom and labs. It includes individual assistance from the instructor, and dedicated time to practice course skills and produce assignments and projects.

PHOT 151

3.0 Units

Professional Photography: Introduction

Prerequisite: PHOT 029 (formerly 070) with a minimum grade of C

Hours: 24-27 lecture, 72-81 lab

Designed for students who are considering a career in photography. Students will be exposed to the technical and creative possibilities of genres of professional photography, including portraiture, fashion, still life and product, documentary, and fine art. SLR Digital camera required. Field trips may be required.

PHOT 152

3.0 Units

Professional Photography: Portraiture

Prerequisite: PHOT 029 (formerly 070) with a minimum grade of C

Hours: 24-27 lecture, 72-81 lab

A focus on varied applications of photographic portraiture in the applied and fine art environments, with attention to lighting, concept and aesthetics. SLR Digital camera required. Field trip may be required.

Photography

- PHOT 153** **3.0 Units** **Professional Photography: Product and Advertising**
Prerequisite: PHOT 029 (formerly 070) with a minimum grade of C
Hours: 24-27 lecture, 72-81 lab
Explore varied film and lighting techniques to execute photographs in the context of advertising. Assignments will vary from studio work to location settings using a wide variety of subjects (food, wine, autos, etc). SLR Digital camera required. Field trip may be required.
- PHOT 154** **3.0 Units** **Professional Photography: Interior and Exterior**
Prerequisite: PHOT 029 (formerly 070) with a minimum grade of C
Hours: 24-27 lecture, 72-81 lab
Provides the student with skills to photograph architecture in the rural and urban landscape. SLR Digital camera required. Field trip may be required.
- PHOT 156** **Portfolio Development** **3.0 Units**
Prerequisite: A minimum grade of C in both PHOT 151 and PHOT 152, PHOT 153 or PHOT 154
Hours: 32-36 lecture, 48-54 lab
An advanced course designed to serve the student in the preparation of a professional fine art or commercial portfolio. Emphasis is placed on individual direction and personal goals. The student can expect individual consultation by the instructor. A digital or film camera is required. Approximately \$200 in photographic materials.
- PHOT 158** **Photo Illustration** **3.0 Units**
Prerequisite: PHOT 032 with a minimum grade of C and a minimum grade of C in either ART 045A or ART 046
Hours: 32-36 lecture, 48-54 lab
Builds on digital media skills in graphic design and photography. Students use original photos and advanced compositing layering and design to create a portfolio of illustrations suitable for editorial, commercial, or fine art applications. Student will need a Digital SLR camera and a portable external hard drive (minimum 500GB). The photo department has some equipment to loan students who are unable to provide their own.
- PHOT 161** **Workshop: Camera Intensive** **1.0 Unit**
Hours: 8-9 lecture, 24-27 lab
Introduction to Digital Single Lens Reflex (DSLR) camera capture and basic software skills. Students will learn how to operate their camera effectively in manual mode as well as use a wide range of camera features. Not eligible to students that have successfully completed PHOT 029. DSLR camera is required. Department has some cameras for loan to students who cannot supply their own camera.
- PHOT 162** **Workshop: Portraiture and Studio Lighting** **1.0 Unit**
Hours: 8-9 lecture, 24-27 lab
A studio portraiture course, including an introduction to using studio lighting. Not eligible to students that have successfully completed PHOT 152. DSLR camera is required. Department has some cameras for loan to students who cannot supply their own camera.
- PHOT 163** **Landscape and Nature Photography** **1.0 Unit**
Course Advisory: A minimum grade of C in either PHOT 029 (formerly 070) or PHOT 161
Hours: 8-9 lecture, 24-27 lab
An intensive, hands-on immersion in strategies and techniques for making strong, evocative landscape and nature photographs. Classes will include presentations, demonstrations, exercises and field trips to local areas. Recommended for intermediate to advanced levels. DSLR camera is required. Department has some cameras for loan to students who cannot supply their own camera.
- PHOT 171L** **Digital Imaging Practicum** **1.0 Unit**
Corequisite: PHOT 071
Hours: 48-54 lab
Takes place in the photography digital labs. Includes individual assistance from the instructor and dedicated time to practice course skills and produce assignments and projects.
- PHOT 173L** **DSLR Videography Practicum** **1.0 Unit**
Corequisite: PHOT 073
Hours: 48-54 lab
Takes place in the photography digital labs and studio. Includes individual assistance from the instructor and dedicated time to practice course skills and produce assignments and projects.

Physical Science

Physical Science

Program Description

Solano Community College offers a two-year Associate in Science Degree in Physical Science that provides students the opportunity to investigate methods of scientific inquiry, and to gain scientific knowledge, through specialization in one or more Physical Science disciplines that align with their personal interests, such as Physics, Chemistry, Astronomy, and Geology. Crucially, students taking this degree will also gain an understanding of the factors that affect the Earth's climate, and will thereby develop a deep understanding of the important issue of Climate Change, which will allow them to be knowledgeable global citizens. Students will develop critical thinking skills, learn to communicate effectively in writing, and acquire an understanding of major scientific concepts. Through course options, students will employ methods of scientific inquiry to understand the world around them. Completion of the degree requirements will prepare students with the skills and resources needed to facilitate academic and career decisions.

Associate in Science Degree

An Associate in Science Degree can be obtained by completing the 34-unit major, SCC General Education - Option A, and electives. All courses for the major must be completed with a minimum grade of C or a grade of P if the course is taken on a Pass/No Pass basis.

Program Outcomes

1. Describe physical phenomena in multiple forms (verbal, pictorial, graphical, and mathematical).
2. Qualitatively and quantitatively predict, analyze and/or explain the behavior of physical systems using fundamental physical principles and models.
3. Develop and implement a plan of collecting and/or accessing experimental data, and performing data analysis

REQUIRED COURSES Units

CIS 001 Introduction to Computer Science	3
MATH 011 Elementary Statistics	4
PHSC 013 Weather and Climate	3
PHSC 014 Atmospheric Science Laboratory	1
Option 1 or 2	10
13 Units from List A	13

Required Major Total Units 34

Option 1 Units

CHEM 001 General Chemistry I	5
CHEM 002 General Chemistry II	5

Option 2 Units

PHYS 002 General Physics (Non-calculus)	5
PHYS 004 General Physics (Non-calculus)	5

List A (select 13 units) Units

Any course(s) not used from Option 1 or 2	
ASTR 010 General Astronomy	3
ASTR 020 Astronomy Laboratory	1
ASTR 040 Stars, Galaxies, and Cosmology	3
ASTR 045 Introduction to Astrobiology and the Search for Life in the Universe	3
ASTR 050 Astronomical Optics	1
CHEM 010 Intermediate Chemistry	4
GEOL 001 Physical Geology	3
GEOL 002 Geology Laboratory	1
GEOL 006 Earth Science	3
GEOL 006L Earth Science Laboratory	1
PHSC 012 Introduction to Principles of Physical Science	4
PHSC 015 Global Climate Change	3
PHSC 016 Natural Disasters	3

Solano General Education 21

Electives (as needed to reach 60 units) 5

Total Degree Units Solano GE 60

Physical Science

PHSC 012

4.0 Units

Introduction to Principles of Physical Science

General Education: Option A: Area A; Option B: Area 5A, 5C;

Option C: Area B1, B3

Transferable to UC/CSU

Hours: 48-54 lecture, 48-54 lab

Introduction to the physical universe from atomic particles to the stars, with emphasis on the basic principles of physics, chemistry, astronomy, and the geo-sciences. Meets the physical science requirement for general education for non-science majors. Field trips may be required.

PHSC 013 Weather and Climate

3.0 Units

Corequisite: PHSC 014

General Education: Option B: Area 5A; Option C: Area B1

Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to modern meteorology. Topics include air circulation, pressure and wind, temperature, moisture, fronts, storm systems, cloud types, and air stability. The course will also include an introduction to interpreting weather maps, synoptic weather forecasting, and climate change.

PHSC 014 Atmospheric Science Laboratory 1.0 Unit

Corequisite: PHSC 013, PHSC 015 or PHSC 016

General Education: Option B: Area 5C; Option C: Area B3

Transferable to UC/CSU

Hours: 48-54 lab

Emphasizes the practical concepts of physical science and weather using demonstration and experimentation. Topics include the scientific method, Newton's laws of motion, heat and energy transfer, the gas law, and fluid dynamics. Other experiments will demonstrate weather observation techniques, collection and analysis of atmospheric data, weather map study, cloud identification, interpretation of satellite imagery, and basic forecasting skills. This course includes a field trip to a local forecasting facility.

PHSC 015 Global Climate Change

3.0 Units

Course Advisory: Concurrent enrollment in PHSC 014

General Education: Option B: Area 5A; Option C: Area B1

Transferable to UC/CSU

Hours: 48-54 lecture

Explores the principles underlying the interdisciplinary and rapidly growing field of climate science and climate change. Topics include the Earth's climate system and climate history, the physics and chemistry of greenhouse gases, and evidence for climate change. The course investigates human influences on the climate system, including greenhouse gas emissions, and potential impacts of climate change. It also considers various possible responses to climate change, including alternative energy production, policy responses, and adaptation. Field trips may be required.

PHSC 016 Natural Disasters

3.0 Units

Course Advisory: Concurrent enrollment in PHSC 014

General Education: Option B: Area 5A; Option C: Area B1

Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to the hazards created by the earth's natural and physical processes covering a broad scientific understanding of earthquakes, volcanoes, hurricanes, tsunamis, tornadoes, flooding, wildfires, and other disasters. Other topics will include threats from the earth's changing climate and potential impacts from asteroids and comets. Atmospheric and geological processes that create these catastrophes will also be discussed. The concept of science and the scientific method will be introduced and applied to the course material. Field trips may be required.

Physics for Transfer (AS-T)

CAREER PATHS:

Physics Teacher

Physicist

Nanosystems Engineer

Atmospheric, Earth, Marine, or Space Scientist

Additional Career Paths and related data, including state-by-state wage info and growth in the field, can be found at www.onetonline.org.

This program map represents one possible pathway. See a counselor to create a customized education plan. Map is for the 2019-2020 catalog year.

1 FIRST SEMESTER

Total Recommended Units: 16

<input type="checkbox"/> MATH 020	5 units
Analytic Geometry and Calculus I (IGETC 2)	
<input type="checkbox"/> ENGL 001	4 units
English Composition (IGETC 1A)	
<input type="checkbox"/> LR 010	1 units
Introduction to Library Research and Information Competency	
<input type="checkbox"/> IGETC 4	3 units
Suggested: COMM 012 or COUN 015 or PSYC 007	
<input type="checkbox"/> IGETC 5	3 units
Suggested: COMM 001	

2 SECOND SEMESTER

Total Recommended Units: 17

<input type="checkbox"/> MATH 021	5 units
Analytic Geometry and Calculus II	
<input type="checkbox"/> PHYS 006 (L)	5 units
Physics for Science and Engineering (IGETC 5A)	
<input type="checkbox"/> IGETC 1B	4 units
Suggested: ENGL 002 or 004	
<input type="checkbox"/> IGETC 3B/Am Inst Grp 2	3 units
Suggested: HIST 017 or 018 or 028 or 029 or 037	

3 THIRD SEMESTER

Total Recommended Units: 15

<input type="checkbox"/> MATH 021	5 units
Analytic Geometry and Calculus II	
<input type="checkbox"/> PHYS 007	5 units
Physics for Science and Engineering	
<input type="checkbox"/> IGETC 1C	3 units
Suggested: COMM 001	
<input type="checkbox"/> IGETC 4	3 units
Suggested: COMM 012 or COUN 015 or PSYC 007	

4 FOURTH SEMESTER

Total Recommended Units: 14

<input type="checkbox"/> PHYS 008	5 units
Physics for Science and Engineering	
<input type="checkbox"/> IGETC 5B	3 units
Without Lab	
<input type="checkbox"/> IGETC 3A or 3B	3 units
Suggested: PLSC 001 or 005	
<input type="checkbox"/> IGETC 4/Am Inst Grp 1	3 units
Suggested: PLSC 001 or 005	

Required Courses/Courses in Discipline GE Courses/Categories

2020-2021 catalog
year Pathways
coming soon.



SOLANO
COMMUNITY COLLEGE

Physics

Associate in Sciences for Transfer
GE Pattern: IGETC
Program Total Units: 62

For more information
please contact:
(707) 864-7211

GET STARTED NOW!

Get started on your Pathway now with these recommended courses!

Then – See a counselor to create a **CUSTOMIZED** education plan personalized to your career and transfer goals!

Required courses may change depending on a student's career and transfer goals, including requirements for cross-cultural and foreign language courses, and/or specific requirements for an individual CSU or UC.

Unique transfer requirements for a specific institution can be found at www.assist.org.

LET US HELP YOU!

How to Apply: solano.edu/ar/apply.php

Questions? Talk to a Counselor Now!

Main Campus, Fairfield: (707) 864-7101
Vacaville Center: (707) 863-7836
Vallejo Center: (707) 642-8188
Travis AFB: (707) 863-7878
Visit online at solano.edu/counseling

Contact Our Career Center to Learn Your Career Options!

Call 707-864-7124, or email at CareerCenter@solano.edu
Visit online at solano.edu/career

You Can Afford College! Learn more about Financial Aid!

Call 707-864-7103, or email at FinancialAid@solano.edu
Visit online at solano.edu/financial_aid

College is Accessible! Contact our Disability Services Program (DSP) at 707-864-7136.

Physics

Associate in Science in Physics for Transfer (ADT: A.S.-T)

Program Description

The focus of this program is on developing an understanding of and appreciation for the basic laws of our physical universe. This is done largely through the development of conceptual understanding, problem-solving skills, and laboratory investigations. The Physics 006,007,008 sequence is a three-semester offering in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering. Physics 006 is a study of mechanics, gravitation, vibration and fluids. In Physics 007, students will cover the topics of electricity, magnetism, wave motion, and sound. In Physics 008, students will cover heat, optics, relativity, and modern physics. Students will learn to analyze and solve problems appropriate for this level. Experiments relating to the topics covered will be performed.

Associate in Science in Physics for Transfer

The Associate in Science in Physics for Transfer, which aligns with the physics TMC, will prepare students for a baccalaureate degree in physics. It consists of the courses necessary for beginning physics students to be able to succeed in the upper division physics courses that they will encounter in the CSU system, or any institution (such as the UC system) that grants an undergraduate physics degree.

To earn the Associate in Science in Physics for Transfer degree, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Science in Physics for Transfer degree will be able to:

1. Demonstrate analytical and/or conceptual problem solving skills related to the study of Physics.
2. Carry out experiments and critically assess data. Students will learn the role of hypothesis, measurement, and analysis in the development of scientific theory, as evidenced by laboratory reports.
3. Write a professional scientific laboratory report.

REQUIRED COURSES	Units
PHYS 006 Physics for Science and Engineering	5
PHYS 007 Physics for Science and Engineering	5
PHYS 008 Physics for Science and Engineering	5
MATH 020 Analytic Geometry and Calculus I.....	5
MATH 021 Analytic Geometry and Calculus II.....	5
MATH 022 Analytic Geometry and Calculus III	4

Required Major Total Units	29
CSU General Education or IGETC Pattern Units ...	37-39
CSU Transferable Electives (as needed to reach 60 transferable units)*	1
Total Degree Units	60

* 7 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Physics

Physics

Program Description

The focus of this program is on developing an understanding of and appreciation for the basic laws of our physical universe. This is done largely through the development of conceptual understanding, problem solving skills, and laboratory investigations.

Associate in Science Degree

The Associate in Science Degree can be obtained by completing the 35-39-unit major, general education requirements, and electives. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Physics Associate Degree will be able to:

1. Demonstrate analytical and/or conceptual problem solving skills related to the study of Physics.
2. Carry out experiments and critically assess data. Students will learn the role of hypothesis, measurement, and analysis in the development of scientific theory, as evidenced by laboratory reports.
3. Write a professional scientific laboratory report.

REQUIRED COURSES	Units	CHEM 003 Organic Chemistry I	5
PHYS 006 Physics for Science and Engineering	5	CHEM 004 Organic Chemistry II	5
PHYS 007 Physics for Science and Engineering	5	CHEM 010 Intermediate Chemistry	4
PHYS 008 Physics for Science and Engineering	5	CHEM 011 Basic Organic Chemistry and Biochemistry	4
MATH 020 Analytic Geometry and Calculus I	5	GEOG 001 Physical Geography	3
MATH 021 Analytic Geometry and Calculus II	5	GEOG 001L Physical Geography Laboratory	1
MATH 023 Differential Equations	4	GEOL 001 Physical Geology	3
One course from Biological Science	3-5	GEOL 002 Geology Laboratory	1
One course from Physical Science	3-5	GEOL 005 Geology of California	3
Required Major Total Units	35-39	PHSC 012 Introduction to the Principles of Physical Science	4
Biological Science (select one course)	Units	CSU General Education or IGETC Pattern units	37-39
BIO 002 Principles of Cell and Molecular Biology	5	Transferable Electives (as needed to reach 60 units)	0
BIO 003 Evolution, Ecology & Biodiversity	5	Total Degree Units CSU GE or IGETC	62-69
BIO 005 Human Physiology	5	Solano General Education	21
BIO 012 Environmental Science	3	Electives (as needed to reach 60 units)	0-4
BIO 014 Principles of Microbiology	4	Total Degree Units Solano GE	60
BIO 015 Introduction to Biology	4		
BIO 016 Introduction to Human Biology	3		
BIO 018 Biology of Sex	3		
Physical Science (select one course)	Units		
ASTR 010 General Astronomy	3		
ASTR 020 Astronomy Laboratory	1		
ASTR 030 The Solar System	3		
ASTR 040 Stars, Galaxies, and Cosmology	3		
CHEM 001 General Chemistry I	5		
CHEM 002 General Chemistry II.....	5		

**9-10 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.*

Physics

PHYS 002 General Physics (Non-Calculus) 5.0 Units

Prerequisite: A minimum grade of C in either MATH 004 or MATH 051

General Education: Option A: Area A; Option B: Area 5A, 5C

Transferable to UC/CSU

Hours: 64-72 lecture, 48-54 lab

First in a two-semester sequence with PHYS 004 in introductory physics using math through trigonometry. Recommended for teachers, technicians, pre-dentistry, pre-medical, and biology majors, and others who need a general physics course. The course covers the study of motion, energy, momentum, gravitation, solids, fluids, thermodynamics and the gaseous state, vibration, wave motion, and sound. Experiments relating to the topics covered will be performed and students will analyze the experiments. Field trip may be required. (C-ID PHYS 105)

PHYS 004 General Physics (Non-Calculus) 5.0 Units

Prerequisite: PHYS 002 with a minimum grade of C

General Education: Option A: Area A; Option B: Area 5A, 5C;

Option C: Area B1, B3

Transferable to UC/CSU

Hours: 64-72 lecture, 48-54 lab

Second in a two-semester sequence with PHYS 002 in introductory physics using math through trigonometry. Recommended for teachers, technicians, pre-dentistry, pre-medical, and biology majors, and others who need a general physics course. The course is a study of electricity, magnetism, light and optics, and modern physics. Students learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed and students will analyze the experiments. Field trip may be required. (C-ID PHYS 110)

PHYS 006 Physics for Science and Engineering 5.0 Units

Prerequisite: MATH 021 with a minimum grade of C (may enroll concurrently)

Course Advisory: PHYS 002 with a minimum grade of C or high school physics

General Education: Option A: Area A; Option B: Area 5A, 5C;

Option C: Area B1, B3

Transferable to UC/CSU

Hours: 64-72 lecture, 48-54 lab

First in a three-semester sequence with PHYS 007 and PHYS 008 in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering. A study of mechanics, gravitation, vibration and fluids. Students will learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed. (C-ID PHYS 205)

PHYS 007 5.0 Units

Physics for Science and Engineering

Prerequisite: A minimum grade of C in both PHYS 006 and MATH 021

General Education: Option A: Area A; Option B: Area 5A, 5C;

Option C: Area B1, B3

Transferable to UC/CSU

Hours: 64-72 lecture, 48-54 lab

Second in a three-semester sequence with PHYS 006 and PHYS 008 in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering. A continued covering of topics including electricity, magnetism, wave motion, and sound. Students will learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed. (C-ID PHYS 210)

PHYS 008 5.0 Units

Physics for Science and Engineering

Prerequisite: A minimum grade of C in both PHYS 006 and MATH 021.

General Education: Option A: Area A; Option B: Area 5A, 5C;

Option C: Area B1, B3

Transferable to UC/CSU

Hours: 64-72 lecture, 48-54 lab

Third in a three-semester sequence with PHYS 006 and PHYS 007 in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering. A continued covering of heat, optics, relativity, and modern physics. Students will learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed and students will analyze the experiments. Field trip may be required. (C-ID PHYS 215)

PHYS 010 Descriptive Physics 3.0 Units

Course Advisory: MATH 330 or MATH 330B

General Education: Option A: Area A; Option B: Area 5A; Option C:

Area B1

Transferable to UC/CSU

Hours: 48-54 lecture

An introductory physics course for both the non-science and the beginning science student. Includes topics such as nuclear physics, relativity, mechanics, properties of matter, quantum physics, heat, light, electricity and magnetism, sound and waves. Written assignments, tests, and a comprehensive final exam will be used to evaluate student success. Field trip may be required.

Political Science for Transfer (AA-T)

CAREER PATHS:

Political Scientist

Political Science Teacher

Pre-Law/Law Pathway

Additional Career Paths and related data, including state-by-state wage info and growth in the field, can be found at www.onetonline.org.

This program map represents one possible pathway. See a counselor to create a customized education plan. Map is for the **2019-2020** catalog year.



SOLANO
COMMUNITY COLLEGE

Political Science

Associate in Arts for Transfer
GE Pattern: IGETC
Program Total Units: 62

For more information
please contact:
(707) 864-7251

1 FIRST SEMESTER

Total Recommended Units: 15

- PLSC 001** 3 units
Introduction to American Government and Politics (Am. Inst. Grp 1)
- ENGL 001** 4 units
College Composition (IGETC 1A)
- LR 010** 1 units
Introduction to Library Research and Information Competency
- MATH 011** 4 units
Elementary Statistics (IGETC 2)
- Transferable Elective** 3 units
Course #001 - 049
Suggested: COUN 007

2 SECOND SEMESTER

Total Recommended Units: 17

- PLSC 002** 3 units
Introduction to Comparative Politics (IGETC 4)
- IGETC 1B** 4 units
Suggested: ENGL 004
- IGETC 1C** 3 units
Suggested: COMM 006
- IGETC 5A or 5B** 4 units
With Lab
- Transferable Elective** 3 units
Course #001 - 049

3 THIRD SEMESTER

Total Recommended Units: 15

- PLSC 004** 3 units
Introduction to International Politics (IGETC 4)
- IGETC 4/ Am Inst Grp 2** 3 units
Suggested: HIST 017 or 018 or 028 or 037
- IGETC 3B** 3 units
- IGETC 3A or 3B** 3 units
- IGETC 5A or 5B** 3 units
Without Lab. Whichever not previously taken.

4 FOURTH SEMESTER

Total Recommended Units: 15

- IR 001 or PLSC 003** 3 units
Global Interdependence
- PLSC 006 or 016 or 019** 3 units
- IGETC 3A** 3 units
Suggested: ART 012 or CIN 011 or MUS 013
- Transferable Elective** 3 units
Course #001 - 049
- Transferable Elective** 3 units
Course #001 - 049

GET STARTED NOW!

Get started on your Pathway now with these recommended courses!

Then – See a counselor to create a **CUSTOMIZED** education plan personalized to your career and transfer goals!

Required courses may change depending on a student's career and transfer goals, including requirements for cross-cultural and foreign language courses, and/or specific requirements for an individual CSU or UC.

Unique transfer requirements for a specific institution can be found at www.assist.org.

LET US HELP YOU!

How to Apply: solano.edu/ar/apply.php

- **Questions? Talk to a Counselor Now!**
Main Campus, Fairfield: (707) 864-7101
Vacaville Center: (707) 863-7836
Vallejo Center: (707) 642-8188
Travis AFB: (707) 863-7878
Visit online at solano.edu/counseling
- **Contact Our Career Center to Learn Your Career Options!**
Call 707-864-7124, or email at CareerCenter@solano.edu
Visit online at solano.edu/career
- **You Can Afford College! Learn more about Financial Aid!**
Call 707-864-7103, or email at FinancialAid@solano.edu
Visit online at solano.edu/financial_aid
- **College is Accessible!** Contact our Disability Services Program (DSP) at 707-864-7136.

2020-2021 catalog year Pathways coming soon.

Required Courses/Courses in Discipline GE Courses/Categories

Political Science

Associate in Arts in Political Science for Transfer (ADT: A.A.-T)

Program Description

This program examines the theory and practice of government and the powerful personalities that affect governmental decisions. This interplay of individual citizens, public leaders, elections, and world events make political inquiry relevant today. The program provides a broad base for the analysis of how government resolves social conflict within the United States and around the world.

Associate in Science in Political Science for Transfer

Upon completion of the Associate in Arts in Political Science for Transfer Degree, students will be eligible to transfer to a CSU undergraduate Political Science program. The Associate in Arts in Political Science for Transfer Degree will facilitate successful transfer to the CSU system, allowing students to complete baccalaureate degrees in a more timely fashion.

To earn the Associate in Arts in Political Science for Transfer degree, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Political Science for Transfer degree will be able to:

1. Develop theory and content knowledge of political science.
2. Comprehend, analyze, and evaluate academic literature in political science.
3. Create original work and/or research in political science.

REQUIRED COURSES	Units
PLSC 001 Introduction to American Government and Politics	3
Three courses from List A	9-10
Two courses from List B	6-7
Required Major Total Units	18-20

List A: (select three courses).....	Units
PLSC 002 Introduction to Comparative Government	3
PLSC 003 Introduction to International Politics	3
PLSC 006 Basic Concepts in Political Thought	3
MATH 011 Elementary Statistics	4
PLSC 004 Introduction to Political Science.....	3

List B: (select two courses)	Units
Any List A course not used	
PLSC 005 Constitutional Rights in a Multicultural Society	3
PLSC 007 International Relations	3
PLSC 016 The American Legal System	3
PLSC 019 Human Rights and Sexual Orientation.....	3

CSU General Education or IGETC Pattern Units ...	37-39
CSU Transferable Electives (as needed to reach 60 transferable units)*	7-17
Total Degree Units	60

* 6 - 12 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Political Science

PLSC 001

3.0 Units

Introduction to American Government and Politics

General Education: Opt A: Area B1; Opt B: Area 4, CSU 1;

Opt. C: Area D, CSU 1

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to the theory and practice of American politics, this course includes an analysis of the operation of national, state, and local governments, as well as the U.S. and California Constitutions. (C-ID POLS 110)

PLSC 002

3.0 Units

Introduction to Comparative Government

Course Advisory: PLSC 001; ENGL 001 with a minimum grade of C

General Education: Opt. A: Area B2; Opt. B: Area 4; Opt. C: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

The political institutions of selected industrialized and developing nations are examined comparatively. Emphasis is on the formation of political institutions; government; political culture; ethnic groups; citizen and interest participation; political parties; and modern bureaucratic public policy roles. This course includes a 10-12 page research paper. (C-ID POLS 130)

PLSC 003

3.0 Units

Introduction to International Politics

Course Advisory: PLSC 001 with a minimum grade of C; ENGL 001

General Education: Opt. A: Area B2; Opt. B: Area 4; Opt. C: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

An introductory study of the international system from the U.S. perspective focusing on such concepts as the nation state and nationalism, power, war and military strategy, international law and approaches to international peace and stability. (C-ID POLS 140)

PLSC 004 Introduction to Political Science 3.0 Units

Course Advisory: ENGL 001 with a minimum grade of C

General Education: Opt. A: Area B1; Opt. B: Area 4; Opt. C: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to political science designed to familiarize students with basic political concepts, political ideologies, political systems, and subfields within political science. (C-ID POLS 150)

PLSC 005

3.0 Units

Constitutional Rights in a Multicultural Society

Course Advisory: PLSC 001; ENGL 001

General Education: Opt. A: Area B1, E; Opt. B: Area 4, CSU 1, SCC Cross-

Cultural; Opt. C: Area D, CSU 1, SCC Cross-Cultural

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to Constitutional rights, this course will highlight the impact of European, Native American, African American, Asian American, and Latino American cultures on United States and California law and government. The effect of the legislative, executive, and judicial branches will be explored. Cross-cultural issues will also be an integral part of this inquiry, including the freedom of expression, religious culture, and the politics of ethnic groups.

PLSC 006 Introduction to Political Philosophy 3.0 Units

Course Advisory: ENGL 001 or ENGL 062

General Education: Opt. A: Area B2; Opt. B: Area 3B, 4; Opt. C: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

An inquiry into fundamental political concepts in political thought (e.g. justice, freedom, equality, power, authority, obligation and citizenship) as expressed by major political thinkers. Includes the study of basic skills, criticism, and methods in political inquiry relevant to the life and education of citizens. Critical reading and writing are required. (C-ID POLS 120)

PLSC 007 International Relations 3.0 Units

Course Advisory: PLSC 001 with a minimum grade of C

General Education: Opt. A: Area B1; Opt. B: Area 4; Opt C: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to international relations theory with an examination of national, international, transnational, and sub-national actors and their institutions, interactions and processes as they relate to global issues. Designed to give students a foundation for the study of international relations, it provides a backdrop to understanding global interdependence, its causes and consequences. Included are political, economic, historical, philosophical, cultural, geographical, and environmental dimensions of interdependence. (Formerly IR 001)

Political Science

PLSC 016 The American Legal System

3.0 Units

Course Advisory: PLSC 001; ENGL 001

General Education: Opt. A: Area B2; Opt. B: Area 4; Opt. C: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to the American legal system and influence of other legal systems, emphasizing the evolution of legal concepts in response to the changing environment. The American judicial system will be analyzed to include civil and criminal procedure, torts & contracts, as well as current legal issues including the death penalty, insanity defense, drugs, environmental law, right to die, forensic evidence and role of juries.

PLSC 019

3.0 Units

Human Rights and Sexual Orientation

Course Advisory: ENGL 001

General Education: Opt. A: Area B2; Opt. B: Area 4; Opt. C: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to gay/lesbian studies with an analysis of a variety of concepts and theories in relation to political science, gay rights and the law, the politics of AIDS, health issues, the political/religious right, marriage and family, and current gay agenda issues.

PLSC 049 Political Science Honors

1.0 to 3.0 Units

Prerequisite: Completion of 24 units of college credit with a minimum

GPA of 3.3; a minimum of 6 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability.

Transferable to CSU

Hours: 48-162 lab by arrangement

Independent study project which results in a critical examination of government, politics, or law. Students may take this course up to the maximum number of units over multiple semesters.

PLSC 050 Student Leadership

1.0 Unit

Transferable to CSU

Hours: 32-36 lab, 16-18 lab by arrangement

A class devoted to the practical application of the governmental process through participation in the student government program. Open to all students.

Psychology for Transfer (AA-T)

CAREER PATHS:

Clinical Psychologist

Neuropsychologist and Clinical Neuropsychologist

School Psychologist

Psychology Teacher

Industrial-Organizational Psychologist

Rehabilitation Counselor

Additional Career Paths and related data, including state-by-state wage info and growth in the field, can be found at www.onetonline.org.

This program map represents one possible pathway. See a counselor to create a customized education plan. Map is for the 2019-2020 catalog year.



SOLANO
COMMUNITY COLLEGE

Psychology

Associate in Arts for Transfer
GE Pattern: IGETC
Program Total Units: 62

For more information
please contact:
(707) 864-7251



FIRST SEMESTER

Total Recommended Units: 14

- PSYC 001** 3 units
Introduction to Psychology (IGETC 4)
- ENGL 001** 4 units
English Composition (IGETC 1A)
- LR 010** 1 units
Introduction to Library Research and Information Competency
- PSYC List B of ADT** 3 units
- IGETC 1C** 3 units
Suggested: Comm 001 or 002 or 003



SECOND SEMESTER

Total Recommended Units: 16

- MATH 011** 4 units
Statistics (IGETC 2)
- PSYC 002** 3 units
Biological Psychology (IGETC 4)
- IGETC 3A** 3 units
- IGETC 4/Am Inst Grp 1** 3 units
Suggested: POLSC 001 or PLSC 005
- Transferable Elective** 3 units
(Course #001-049)
Suggested: PSYC List B of ADT



THIRD SEMESTER

Total Recommended Units: 16

- PSYC 040** 4 units
Research Methods in Behavioral Science (IGETC 4)
- IGETC 1B** 4 units
Suggested: ENGL 002 or 004
- IGETC 3B/Am Inst Grp 2** 3 units
Suggested: HIST 017 or 018 or 028 or 029 or 037
- Transferable Elective** 3 units
(Course #001-049)
Suggested: PSYC List B of ADT
- Transferable Elective** 3 units
(Course #001-049)
Suggested: PSYC List B of ADT



FOURTH SEMESTER

Total Recommended Units: 16

- BIOL 015(L)** 4 units
Introduction to Biology (IGETC 5B w/ lab)
- IGETC 3A or 3B** 3 units
- IGETC 5A** 3 units
With or Without Lab
- Transferable Elective** 3 units
(Course #001-049)
Suggested: Psychology List B
- Transferable Elective** 3 units
(Course #001-049)

2020-2021 catalog
year Pathways
coming soon.

GET STARTED NOW!

- ▶ **Get started on your Pathway now with these recommended courses!**
Then – See a counselor to create a **CUSTOMIZED** education plan personalized to your career and transfer goals!
- ▶ Required courses may change depending on a student's career and transfer goals, including requirements for cross-cultural and foreign language courses, and/or specific requirements for an individual CSU or UC.
- ▶ Unique transfer requirements for a specific institution can be found at www.assist.org.

LET US HELP YOU!

How to Apply: solano.edu/ar/apply.php

- **Questions? Talk to a Counselor Now!**
Main Campus, Fairfield: (707) 864-7101
Vacaville Center: (707) 863-7836
Vallejo Center: (707) 642-8188
Travis AFB: (707) 863-7878
Visit online at solano.edu/counseling
- **Contact Our Career Center to Learn Your Career Options!**
Call 707-864-7124, or email at CareerCenter@solano.edu
Visit online at solano.edu/career
- **You Can Afford College! Learn more about Financial Aid!**
Call 707-864-7103, or email at FinancialAid@solano.edu
Visit online at solano.edu/financial_aid
- **College is Accessible!** Contact our Disability Services Program (DSP) at 707-864-7136.

Required Courses/Courses in Discipline GE Courses/Categories

Psychology

Associate in Arts in Psychology for Transfer (ADT: A.A.-T)

Program Description

The psychology program provides a broad overview of psychology as a science of human behavior and mental processes. The program emphasizes critical thinking, skeptical inquiry and the scientific approach to understanding major theories, methods, and research in psychology. In addition, personal, social, and organizational areas are explored.

Associate in Arts in Psychology for Transfer

The Associate in Arts for Transfer is especially appropriate for students who plan to complete a bachelor's degree in Psychology at a CSU campus. Students completing an A.A.-T degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the A.A.-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree also prepares students for psychology degree programs at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

To earn the Associate in Arts in Psychology for Transfer degree, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Psychology for Transfer degree will be able to:

1. Demonstrate an understanding of the major theories in psychology.
2. Produce an APA formatted research proposal.
3. Demonstrate an ability to apply psychological concepts to everyday life.

REQUIRED COURSES	Units
PSYC 001 Introduction to Psychology	3
PSYC 002 Biological Psychology	3
MATH 011 Elementary Statistics	4
PSYC 004 Research Methods in Behavioral Science.....	3
One course from List A.....	3-4
One course from List B.....	3

List A: (select one course).....	Units
BIO 015 Introduction to Biology	4
BIO 016 Introduction to Human Biology.....	3

List B: (select one course).....	Units
PSYC 005 Abnormal Psychology	3
PSYC 006 Developmental Psychology	3
PSYC 007 Cross-Cultural Psychology	3
PSYC 012 Introduction to Gender	3
PSYC 020 Personal and Social Behavior	3
PSYC 030 Introduction to Social Psychology	3
PSYC 034 Human Sexual Behavior	3
PSYC 040 Drugs, Society & Behavior.....	3

Required Major Total Units	19-20
CSU General Education or IGETC Pattern Units ...	37-39
CSU Transferable Electives (as needed to reach 60 transferable units)*	10-19
Total Degree Units	60

* 9-15 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Psychology

Psychology

Program Description

The psychology program provides a broad overview of psychology as a science of human behavior and mental processes. The program emphasizes critical thinking, skeptical inquiry and the scientific approach to understanding major theories, methods, and research in psychology. In addition, personal, social, and organizational areas are explored.

Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing the 22-unit major, general education requirements and electives. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Psychology Associate Degree will be able to:

1. Demonstrate an understanding of the major theories in psychology.
2. Produce an APA formatted research proposal.
3. Demonstrate an ability to apply psychological concepts to everyday life.

REQUIRED COURSES Units

PSYC 001 Introduction to Psychology	3
PSYC 002 Biological Psychology	3
MATH 011 Elementary Statistics	4
PSYC 004 Research Methods in Behavioral Science	3
Three courses from List A	9
Required Major Total Units	22

List A: (select three courses) Units

PSYC 005 Abnormal Psychology	3
PSYC 006 Developmental Psychology	3
PSYC 007 Cross-Cultural Psychology	3
PSYC 012 Introduction to Gender.....	3
PSYC 020 Personal and Social Behavior	3
PSYC 030 Introduction to Social Psychology	3
PSYC 034 Human Sexual Behavior	3
PSYC 040 Drugs, Society, & Behavior	3
HS 001 Introduction to Human Services	3

CSU General Education or IGETC Pattern Units ... 37-39

CSU Transferable Electives (as needed to reach 60 transferable units)*	8-10
Total Degree Units	60

Solano General Education..... 21

Electives (as needed to reach 60 units).....	17
Total Degree Units Solano GE.....	60

** 9 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.*

Psychology

PSYC 001 Introduction to Psychology

3.0 Units

General Education: Opt. A: Area B2; Opt. B: Area 4; Opt. C: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

Introduction to psychology as the scientific study of human behavior and mental processes. Major topics include history of field, scientific method, sensation and perception, brain and nervous system, states of consciousness, development, learning, memory, cognition, motivation, emotion, personality, tests and measurements, health psychology, behavior disorders and treatment, and social psychology. (C-ID PSY 110)

PSYC 002 Biological Psychology

3.0 Units

Prerequisite: PSYC 001 with a minimum grade of C.
General Education: Opt. A: Area B2; Opt. B: Area 4; Opt. C: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

A focus on the relationship of genetic and physiological factors to behavior. Topics include how the brain and nervous system influence behavior including perception, sexual behaviors, sleep, drug use, disorders, memory and learning. Current theories and research in biological psychology are reviewed. (C-ID PSY 150)

PSYC 004

3.0 Units

Research Methods in Behavioral Science

Prerequisite: A minimum grade of C in both PSYC 001 and MATH 011
General Education: Opt. A: Area B2; Opt. B: Area 4; Opt. C: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

Introduction to basic research methods in the behavioral sciences. Assumptions and goals of science are considered as well as several specific research techniques or designs. The ethics of research with human and animal subjects will be covered. (C-ID PSY 200)

PSYC 005 Abnormal Psychology

3.0 Units

Prerequisite: PSYC 001
Course Advisory: ENGL 001, LR 010, ENGL 062
General Education: Opt. A: Area B2; Opt. B: Area 4; Opt. C: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

An overview of psychological disorders surveying selected disorders in the current version of the Diagnostic and Statistical Manual (DSM), including mood disorders (such as depression, bi-polar disorder), anxiety disorders, psychotic disorders (such as schizophrenia), personality disorders, eating disorders and others. The course discusses historical and scientific approaches to explain and to treat these disorders from bio-psycho-social perspectives. (C-ID PSY 120)

PSYC 006 Developmental Psychology

3.0 Units

Course Advisory: PSYC 001
General Education: Opt. B: Area 4; Opt. C: Area D, E
Transferable to UC/CSU
Hours: 48-54 lecture

Study of development from the prenatal period through the lifespan. Emphasis will be on current theories and research in developmental psychology. Physical, cognitive, social-emotional, intellectual and linguistic aspects of development will be examined. Included are influences of family, society and culture. This course does not fulfill the lifespan requirement for the nursing major. (C-ID PSY 120)

PSYC 007 Cross-Cultural Psychology

3.0 Units

Course Advisory: PSYC 001 with a minimum grade of C
General Education: Opt. A: Area E; Opt. B: Area 4;
Opt. C: Area D, SCC Cross-Cultural
Transferable to UC/CSU
Hours: 48-54 lecture

An overview of cross-cultural psychology with critical and comparative study of psychological topics such as ethnicity, gender, cognition, emotion, personality, health, and social interaction. Various ethnic populations within the United States, cultural values and individual beliefs will be examined in this class. Contemporary and historical research on the influence of culture on human psychology is reviewed. A service learning activity and/or field trip may be part of this class.

PSYC 012 Introduction to Gender

3.0 Units

Course Advisory: PSYC 001
General Education: Opt. A: Area B2; Opt. B: Area 4; Opt. C: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

An examination of the psychological, sociological, biological, cognitive, and cultural theories and research of sex and gender. Analysis of the effects of gender expectations and practices on individual development, health, relationships, and the workplace. Includes agents of socialization, impact of economic and political change, social construction of sexuality and gender identities, and intersectional aspects of gender which includes race, ethnicity, and class. Open to all students. (C-ID SOCI 140) (C-ID SJS 120)

Psychology

PSYC 020 Personal and Social Behavior 3.0 Units

General Education: Opt. A: Area B2; Opt. B: Area 4; Opt. C: Area D, E
Transferable to UC/CSU
Hours: 48-54 lecture

Study of human behavior in the process of adjusting to life's changes. The emphasis is on normal and abnormal adaptations to the various challenges which life presents. Issues related to the major schools of thought and their views towards a healthy personality effective and ineffective behavior, behavioral disorders, psychotherapy, relationships, careers and personal growth will be examined.

PSYC 030 Introduction to Social Psychology 3.0 Units

Course Advisory: PSYC 001
General Education: Opt. A: Area B2; Opt. B: Area 4;
Opt. C: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

Explore how thoughts, feelings, and behavior of individuals are influenced by the actual, imagined, or implied presence of others. Focus will be on the social factors that influence human behavior; other people, institutions, situations and the social and physical structures people have created. A review of the various perspectives unique to social psychologists and a variety of classical research in social psychology will be studied. Same course as SOC 030. (C-ID PSY 170)

PSYC 034 Human Sexual Behavior 3.0 Units

General Education: Option B: Area 4; Option C: Area D, E
Transferable to UC/CSU
Hours: 48-54 lecture

Objective exploration of the various issues pertaining to human sexual behavior from the perspective of the behavioral and social sciences. Some of the major topics to be discussed include history of sexuality, attitudes, behaviors, life styles, psychosexual development, role and identity, sexual dysfunctions, therapy and treatment.

PSYC 040 Drugs, Society and Behavior 3.0 Units

General Education: Option C: Area E
Transferable to UC/CSU
Hours: 48-54 lecture

The historical, sociological, psychological, physiological, pharmacological and legal aspects of drugs. Emphasis will be placed on the effects of stimulants, sedative-hypnotics, narcotics, hallucinogens, alcohol, marijuana and inhalants. Various education, prevention and treatment approaches will be discussed. (C-ID PHS 103)

PSYC 049 Psychology Honors 1.0 to 3.0 Units

Prerequisite: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability
Transferable to CSU
Hours: 48-162 lab by arrangement

Independent study designed for honor students who intend to major in psychology. Students may take this course up to the maximum number of units over multiple semesters.

Real Estate

Real Estate

Program Description

This program offers courses needed to qualify for the state of California salesperson license examination as well as for the broker's examination. A full range of real estate courses is offered including real estate finance, appraisals, etc. The courses are taught by qualified real estate professionals.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained by completing the 24-25-unit major. The Associate in Science degree can be obtained by completing the 24-25-unit major, SCC General Education - Option A, and electives. All courses for this major have been approved by the California Department of Real Estate and must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Real Estate Certificate of Achievement/ Associate Degree will be able to:

1. Analyze common real estate problems, apply appropriate solutions, and interpret outcomes.
2. Meet career preparation goals, as well as prepare for a state licensing exam.
3. Explain the process for making home purchase or sale decisions and completing real estate transactions.
4. Demonstrate mastery of program-specific concepts and skills (e.g. understand theory and application in real estate finance, investments, property management and financial institutions).

REQUIRED COURSES Units

RE 164 Real Estate Principles	3
RE 172 Real Estate Practice	3
RE 173 Legal Aspects of Real Estate	3
RE 174 Real Estate Finance	3
RE 175 Principles of Appraisal	3
One course from List A.....	3
Two courses from List B.....	6-7
Required Major Total Units	24-25

Solano General Education.....	21
Electives (as needed to reach 60 units).....	14-15
Total Degree Units Solano GE.....	60

List A: (select one course) Units

RE 171 Real Estate Economics	3
ECON 001 Principles of Economics (Macroeconomics) ..	3
ECON 002 Principles of Economics (Microeconomics) ..	3

List B: (select two courses) Units

ACCT 001 Principles of Accounting - Financial	4
BUS 018 Legal Environment of Business	3
RE 176 Advanced Residential Appraisal Practice	3
RE 177 Income Property Appraisal and Analysis	3

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Real Estate."

Real Estate

RE 164 Real Estate Principles

3.0 Units

Hours: 48-54 lecture

Study of the characteristics of real estate from physical, legal, and economic standpoints. Course material is designed to assist those preparing for the real estate salespersons and brokers license examination.

RE 171 Real Estate Economics

3.0 Units

Hours: 48-54 lecture

Study of the economic aspects of real estate and their effects on real estate markets, urban growth and finance. Particular emphasis is made on governmental and agency controls on development of regional and local areas, past and future.

RE 172 Real Estate Practice

3.0 Units

Hours: 48-54 lecture

A comprehensive study of the techniques used to successfully operate a real estate business. Includes office management administration, in-service training of associate licensees, legal and statutory compliance, and agency and other oversights. Designed for students needing a course for education as required by the Department of Real Estate.

RE 173 Legal Aspect of Real Estate

3.0 Units

Hours: 48-54 lecture

Comprehensive study and analysis of California law as applied to the legal problems involved in real estate transactions. Includes contract, agency, and finance devices.

RE 174 Real Estate Finance

3.0 Units

Hours: 48-54 lecture

Comprehensive study and analysis of money markets, interest rates, and financing as applied to real estate transactions.

RE 175 Principles of Appraisal

3.0 Units

Hours: 48-54 lecture

Entry level appraisal course introducing students to basic appraisal principles and the Uniform Standards of Professional Appraisal Practice. Content includes: Influences on value, legal considerations, economic principles, real estate markets and analysis, valuation process, property description, highest and best use analysis, appraisal statistics, sales comparison and cost approaches to value.

RE 176

3.0 Units

Advanced Residential Appraisal Practice

Hours: 48-54 lecture

Advanced appraisal course covering the principles, procedures and techniques needed to appraise all types of residential properties up to four units. The content includes: Review of basic appraisal principles, use of all Federal National Mortgage Association (FNMA) forms, basic income and expense estimating, gross rent multipliers, appraisal ethics and the Uniform Standards of Professional Appraisal Practice (USPAP). Students will appraise a custom home, a condominium and a small income residential property.

RE 177

3.0 Units

Income Property Appraisal and Analysis

Prerequisite: RE 175

Hours: 48-54 lecture

Advanced appraisal course covering the principles, procedures and techniques needed to appraise commercial property, including large apartment buildings. The course will include review of basic appraisal principles, income and expense estimating, operating expense ratios, direct capitalization, cash flow estimates, measures of cash flow and discounted cash flow analysis. The use of financial calculator will be required.

Science, General

Science, General

Program Description

This program is designed to provide students with a basic science background, preparing them to move into a curriculum at a four-year institution leading to a degree in such fields as chemistry, biology, physics, geology, or health sciences. This program is a path for immediate entry into science-based technology careers.

Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing a minimum of 18 units in the major, general education requirements, and electives. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Science, General Associate Degree will be able to:

1. Demonstrate analytical and/or conceptual problem solving skills.
2. Carry out experiments and critically assess their data.
3. Understand the role of hypotheses, measurement and analysis in the development of scientific theory as evidence by laboratory reports.
4. Write a laboratory report or give an oral presentation.

REQUIRED COURSES Units

12 Units of Laboratory Courses**

Minimum one course from Biological Science

Minimum one course from Physical Science

Required Major Total Units Minimum of 18

Biological Science

BIO 002** Principles of Cell and Molecular Biology	5
BIO 003** Evolution, Ecology, & Biodiversity	5
BIO 004** Human Anatomy	5
BIO 005** Introductory Physiology	5
BIO 012 Environmental Science	3
BIO 012L** Environmental Science Laboratory	1.5
BIO 014* Principles of Microbiology	4
BIO 015** Introduction to Biology	4
BIO 016 Introduction to Human Biology	3
BIO 016L** Human Biology Laboratory	1.5
BIO 018 Biology of Sex	3
BIO 019** Marine Biology	4
ANTH 001 Physical Anthropology	3

Physical Science

ASTR 010 General Astronomy	3
ASTR 020** Astronomy Laboratory	1
ASTR 030 The Solar System	3
ASTR 040 Stars, Galaxies, and Cosmology	3
CHEM 001** General Chemistry	5
CHEM 002** General Chemistry	5
CHEM 003** Organic Chemistry I	5
CHEM 004** Organic Chemistry II	5

CHEM 010** Intermediate Chemistry	4
CHEM 011** Basic Organic Chemistry and Biochemistry	4
CHEM 051 Chemistry for the Health Sciences	5
GEOG 001 Physical Geography	3
GEOG 001L** Physical Geography Laboratory	1
GEOL 001 Physical Geology	3
GEOL 002** Geology Laboratory	1
GEOL 005 Geology of California	3
PHSC 012** Introduction to Principles of Physical Science	4
PHYS 002** General Physics (Non-calculus)	5
PHYS 004** General Physics (Non-calculus)	5
PHYS 006** Physics for Science and Engineering	5
PHYS 007** Physics for Science and Engineering	5
PHYS 008** Physics for Science and Engineering	5
PHYS 010 Descriptive Physics	3

CSU General Education or IGETC Pattern units.... 37-39

Transferable Electives (as needed to reach 60 units)12-14

Total Degree Units CSU GE or IGETC 60

Solano General Education..... 21

Electives (as needed to reach 60 units)..... 21

Total Degree Units Solano GE..... 60

**9 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.*

Social Justice Studies (AA-T)

CAREER PATHS:

Area, Gender, Ethnic, or Cultural Studies Teacher
 Non-profit or Public Administrator
 Human Services or Social Services Provider
 Counselor
 Law or Public Policy
 Human Resources Specialist

Additional Career Paths and related data, including state-by-state wage info and growth in the field, can be found at www.onetonline.org. This program map represents one possible pathway. See a counselor to create a customized education plan. Map is for the **2019-2020** catalog year.

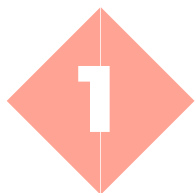


SOLANO
COMMUNITY COLLEGE

Social Justice Studies AA-T Degree

GE Pattern: IGETC
 Program Total Units: 62

For more information
 please contact:
 (707) 864-7251



FIRST SEMESTER

Total Recommended Units: 15

- SJS 001** 3 units
Intro to Social Justice Studies
- SJS Area 3: MATH 011** 4 units
Elementary Statistics (IGETC 2)
- SJS Area 2: Arts and Humanities** 3 units
Suggested: ART 012 or CINA 011 or ENGL 036 or MUSC 013 (IGETC 3A)



SECOND SEMESTER

Total Recommended Units: 16

- SJS 002** 3 units
Intro to Race and Ethnicity
- SJS Area 1: History or Government** 3 units
Suggested: HIST 028 or 029 or 037 (IGETC 4/Am Inst Grp 2)
- IGETC 1B** 4 units
Suggested: ENGL 002 or 004

- ENGL 001** 3 units
English Composition (IGETC 1A)
- LR 010** 1 units
Introduction to Library Research and Information Competency

- IGETC 1B** 3 units
Suggested: COMM 001 or 002 or 003
- Transferable Elective** 3 units
Course #001 - 049

2020-2021 catalog year Pathways coming soon.



THIRD SEMESTER

Total Recommended Units: 15

- PSYCH 012** 3 units
Psychology of Gender (IGETC 4)
- IGETC 4/Am Inst Grp1** 3 units
Suggested: PLSC 001 or 005
- IGETC 5A OR 5B** 3 units
Without Lab.
- IGETC 3A or 3B** 3 units
- Transferable Elective** 3 units
Course #001 - 049



FOURTH SEMESTER

Total Recommended Units: 16

- SJS Area 3: Social Science** 3 units
Suggested: ANTH 002 or CDFS 053 or COMM 012 or PSYC 007 or PSYC 034
- IGETC 5A or 5B** 4 units
With Lab. Whichever not previously taken.
- Transferable Elective** 3 units
Course #001 - 049
- Transferable Elective** 3 units
Course #001 - 049
- Transferable Elective** 3 units
Course #001 - 049

Required Courses/Courses in Discipline GE Courses/Categories

GET STARTED NOW!

▶ **Get started on your Pathway now with these recommended courses!**

Then – See a counselor to create a **CUSTOMIZED** education plan personalized to your career and transfer goals!

▶ Required courses may change depending on a student's career and transfer goals, including requirements for cross-cultural and foreign language courses, and/or specific requirements for an individual CSU or UC.

▶ Unique transfer requirements for a specific institution can be found at www.assist.org.

LET US HELP YOU!

How to Apply: solano.edu/ar/apply.php

- **Questions? Talk to a Counselor Now!**
 Main Campus, Fairfield: (707) 864-7101
 Vacaville Center: (707) 863-7836
 Vallejo Center: (707) 642-8188
 Travis AFB: (707) 863-7878
 Visit online at solano.edu/counseling
- **Contact Our Career Center to Learn Your Career Options!**
 Call 707-864-7124, or email at CareerCenter@solano.edu
 Visit online at solano.edu/career
- **You Can Afford College! Learn more about Financial Aid!**
 Call 707-864-7103, or email at FinancialAid@solano.edu
 Visit online at solano.edu/financial_aid
- **College is Accessible!** Contact our Disability Services Program (DSP) at 707-864-7136.

Social Justice/Ethnic Studies

Associate in Arts in Social Justice Studies for Transfer (ADT: A.A.-T)

Program Description

The Associate in Arts in Social Justice Studies for Transfer at Solano Community College prepares students to provide social leadership in creating greater equity and inclusion in the local community and in larger societal contexts. With a focus on Ethnic Studies, and Gender and Sexuality Studies, Social Justice Studies majors are given opportunities to critically examine the experiences of various communities in relation to issues of power and social inequality. The program's interdisciplinary coursework allows students exposure to a variety of theoretical frameworks including Psychology, English, Sociology, History, Art, Political Science, Communications and more, as well as the fundamentals of methodology needed for social inquiry. Critical thinking and problem solving are emphasized throughout the program, especially in the analysis of historical and current examples of social engagement and change. Social Justice Studies provides a strong academic preparation for upper division coursework, a range of career paths, and meaningful social awareness and public engagement over students' lifetimes.

Associate in Arts in Social Justice Studies for Transfer

The Associate in Art in Social Justice Studies for Transfer Degree is intended for seamless transfer to local California State University campuses (CSUs). Students who successfully complete degree requirements will be ensured preferential transfer status to local CSU campuses in degree programs identified as "similar to" Social Justice Studies by those CSU campuses. While coursework in Social Justice Studies is designed to provide lower division preparatory requirements for many related degree programs, students should meet with a counselor to determine specific course requirements for local CSUs/programs and to properly identify which CSUs are considered local.

To earn the Associate in Arts in Social Justice Studies for Transfer degree, student must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Social Justice Studies for Transfer degree will be able to:

1. Identify and analyze historical and modern-day factors that contribute to social inequities in the United States and globally, especially those related to race, gender, and sexuality.
2. Demonstrate knowledge of the unique experiences and social, artistic, and intellectual contributions of key social groups studied.
3. Apply critical thinking and problem-solving skills to complex social issues related to equality, inclusion, and social justice.

REQUIRED COURSESUnits

SJS 001 Introduction to Social Justice Studies	3
SJS 002 Introduction to Race and Ethnicity	3
PSYC 012 Introduction to Gender.....	3
3 courses from at least 2 of the 4 Areas	9-10

Area 1: History or Government

HIST 028 African American History to 1877.....	3
HIST 029 African American History Since 1865.....	3
HIST 031 Mexican American/Chicano History.....	3
HIST 037 Women in American History	3
PLSC 005 Constitutional Rights in a Multicultural Society.....	3

Area 2: Arts and Humanities

Art 012 Inside/Outside: The Cultures and Identities of Diverse Visual Artists in the U.S.....	3
CINA 011 American Cultures in Film	3
ENGL 036 Multi-Ethnic Literature in America.....	3
MUSC 013 Multicultural Music in America.....	3

Area 3: Social Science

ANTH 002 Cultural Anthropology	3
CDFS 053 Teaching in a Diverse Society.....	3
COMM 012 Intercultural Communication.....	3
PSYC 007 Cross-Cultural Psychology	3
PSYC 034 Human Sexual Behavior	3

Area 4: Quantitative Reasoning and Research Methods

MATH 011 Elementary Statistics	4
--------------------------------------	---

Required Major Total Units 18-19

CSU General Education or IGETC Pattern Units 37-39

CSU Transferable Electives (as needed to reach 60 transferable units)* 14-24

Total Degree Units 60

** 12-19 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.*

Social Justice/Ethnic Studies

Ethnic Studies

Program Description

This major is an interdisciplinary program which provides an opportunity for students to pursue organized studies of minority groups in American Society and to foster and expand general understanding of these groups. The courses allow for a wide latitude of study to meet a variety of interests with courses which fulfill competence in and an understanding of the unique contributions of American ethnic groups; interpretation of American ethnic culture as manifested in its history, its literature, and its social, economic, political, and philosophical development. (The course descriptions may be found under the appropriate disciplines.)

Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing the 18-22-unit major, general education requirements, and electives. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis

Program Outcomes

Students who complete the Ethnic Studies Associate Degree will be able to:

1. Increase understanding of diverse ethnic groups in American society.
2. Identify and analyze the impact of culture and the significance of history and literature.
3. Develop competence as it pertains to various ethnic groups including an understanding of their social, economic, political and philosophical development.
4. Develop competence in understanding the unique contributions of ethnic groups in American Society.

REQUIRED COURSES Units

SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict.....	3
One course from List A.....	3
One course from List B.....	3
One course from List C.....	3
Two courses from List D	6-10

List A: (select one course) Units

ART 012 Inside/Outside: The Cultures and Identities of Visual Artists in a Diverse America	3
MUSC 007 Jazz and Popular Music in America: Ragtime to Rock	3
MUSC 013 Multicultural Music in America.....	3

List B: (select one course)..... Units

COUN 055 Valuing Diversity.....	3
SOCS 030 Peace, Non-Violence, and Conflict Resolution	3

List C: (select one course) Units

HIST 028 African American History to 1877.....	3
HIST 029 African American History Since 1865	3
PLSC 005 Constitutional Rights in a Multicultural Society	3
SOCS 053 Civil Rights, Non-Violence, and Race Relations	3

List D: (select two courses) Units

ANTH 002 Cultural Anthropology	3
COUN 055* Valuing Diversity	3
ENGL 036 Multi-Ethnic Literature in America.....	3
HIST 028* African American History to 1877	3

HIST 029* African American History Since 1865.....	3
HIST 031 Mexican American/Chicano History.....	3
HS 053 Serving Special Populations.....	3
MUSC 007* Jazz and Popular Music in America: Ragtime to Rock	3
MUSC 013* Multicultural Music in America	3
PLSC 005* Constitutional Rights in a Multicultural Society	3
PSYC 007 Cross-Cultural Psychology	3
SOC 002 Social Issues and Problems.....	3
SOC 023 Sociology of African Americans.....	3
SOCS 025 Mexican-American Experience	3
SPAN 001 First Semester Spanish.....	5
SPAN 002 Second Semester Spanish	5
SPAN 003 Third Semester Spanish.....	5
SPAN 004 Fourth Semester Spanish.....	5
THEA 013 Diversity in American Theatre: A Contemporary Focus	3

* If not used for List A-C

Required Major Total Units: 18-22

CSU General Education or IGETC Pattern units 37-39

Transferable Electives (as needed to reach 60 units)..... 11-17

Total Degree Units CSU GE or IGETC 60

Solano General Education..... 21

Electives (as needed to reach 60 units)..... 17-21

Total Degree Units Solano GE..... 60

* 12 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Social Justice/Ethnic Studies

Social Justice Studies

SJS 001 Introduction to Social Justice Studies 3.0 Units

General Education: Option B: Area 4; Option C: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

Interdisciplinary introduction to the study of race/ethnicity, gender, and sexuality in the United States. Examines social justice movements and perspectives in relation to ethnicity/race, gender and sexuality, and related intersectional systems of difference in the United States. Analysis of antiracist and feminist perspectives serves as a basis for understanding socio-economic, cultural and political inequities in the United States and globally, and for assessing strategies for creating greater equity and inclusion for all. (C-ID SJS 110)

SJS 002 Introduction to Race and Ethnicity 3.0 Units

General Education: Option A: Area E; Option B: Area 4, SCC Cross-Cultural; Option C: Area D, SCC Cross-Cultural

Transferable to UC/CSU

Hours: 48-54 lecture

Analysis of race, ethnicity, and racism. Examines the cultural, political, and economic practices and institutions that support or challenge racism, racial and ethnic inequalities, as well as historical and contemporary patterns of interaction between various racial and ethnic groups. (C-ID SOCI 150)

SJS 030

3.0 Units

Peace, Non Violence and Conflict Resolution

General Education: Option A: Area B2; Option B: Area 4; Option C: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to the study of peace, nonviolence and peaceful conflict resolution. The course is designed for students interested in the fundamental issues of peace, justice, and conflict resolution in our society. It offers students an opportunity to reflect on the peace writings of both past and contemporary authors and is an examination of justice, peace, and peacemakers in the U.S. and worldwide. (Formerly SOCS 030)

Sociology for Transfer AA-T

CAREER PATHS:

Sociologist
Sociology Teacher
Social Science Researcher

Additional Career Paths and related data, including state-by-state wage info and growth in the field, can be found at www.onetonline.org.

This program map represents one possible pathway. See a counselor to create a customized education plan. Map is for the **2019-2020** catalog year.



SOLANO
COMMUNITY COLLEGE

Sociology

Associate in Arts for Transfer
GE Pattern: IGETC
Program Total Units: 62-63

For more information
please contact:
(707) 864-7107

1 FIRST SEMESTER

Total Recommended Units: 15

- SOC 001** 3 units
Introduction to Sociology (IGETC 4)
- MATH 011** 4 units
Statistics (IGETC 2)
- ENGL 001** 4 units
College Composition (IGETC 1A)
- LR 010** 1 unit
Library Research and Information Competency
- IGETC AREA 3** 3 units
Suggested: COMM 001 or 026 or 035

2 SECOND SEMESTER

Total Recommended Units: 16

- SOC 002** 3 units
Social Issues and Problems
- SJS 002** 3 units
Introduction to Race and Ethnicity
- IGETC AREA 1B** 4 units
Suggested: ENGL 002 or 004
- IGETC 4** 3 units
Suggested: PSYC 004
- IGETC 1C** 3 units
Suggested: COMM 001 or 026 or 035

3 THIRD SEMESTER

Total Recommended Units: 17

- SOC 030 or 040** 3 units
Social Psychology or Sociology of Family
- IGETC 5A or 5B** 4-5 units
With Lab
- IGETC 3B/Am Inst Grp 2** 3 units
Suggested: HIST 017 or 018 or 028 or 029 or 037
- Transferable Elective** 3 units
Course #001-049
- Transferable Elective** 3 units
Course #001-049

4 FOURTH SEMESTER

Total Recommended Units: 15

- SOC 045 or SOC 049 or SOC 075** 3 units
Sociology of Religion, or Sociology Honors, or Sociology of Sport
- IGETC 4/Am Inst Grp 1** 3 units
Suggested: PLSC 001 or 005
- IGETC 3A or 3B** 3 units
- IGETC 5A or 5B** 3 units
With or Without Lab. Whichever not previously taken.
- Transferable Elective** 3 units
Course #001-049

Required Courses/Courses in Discipline GE Courses/Categories

GET STARTED NOW!

- ▶ **Get started on your Pathway now with these recommended courses!**
Then – See a counselor to create a **CUSTOMIZED** education plan personalized to your career and transfer goals!
- ▶ Required courses may change depending on a student's career and transfer goals, including requirements for cross-cultural and foreign language courses, and/or specific requirements for an individual CSU or UC.
- ▶ Unique transfer requirements for a specific institution can be found at www.assist.org.

LET US HELP YOU!

How to Apply: solano.edu/ar/apply.php

- **Questions? Talk to a Counselor Now!**
Main Campus, Fairfield: (707) 864-7101
Vacaville Center: (707) 863-7836
Vallejo Center: (707) 642-8188
Travis AFB: (707) 863-7878
Visit online at solano.edu/counseling
- **Contact Our Career Center to Learn Your Career Options!**
Call 707-864-7124, or email at CareerCenter@solano.edu
Visit online at solano.edu/career
- **You Can Afford College! Learn more about Financial Aid!**
Call 707-864-7103, or email at FinancialAid@solano.edu
Visit online at solano.edu/financial_aid
- **College is Accessible!** Contact our Disability Services Program (DSP) at 707-864-7136.

2020-2021 catalog year Pathways coming soon.

Sociology

Associate in Arts in Sociology for Transfer (ADT: A.A.-T)

Program Description

Sociology is the study of society and human behavior. Students who obtain a degree in Sociology gain a fundamental understanding of culture, socialization, inequality, racial and ethnic relations, sex roles, deviance, social issues and problems, and the distribution of political and economic power. Sociology students prepare themselves for a job in the field of business, health, education, criminal justice, government/law, or social service, and a variety of other areas.

Associate in Arts in Sociology for Transfer

The Associate in Arts for Transfer (A.A.-T) in Sociology is intended for students who plan to complete a bachelor's degree in Sociology at a CSU campus. Students completing this degree (A.A.-T in Sociology) are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn the Associate in Arts in Sociology for Transfer degree, student must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Sociology for Transfer degree will be able to:

1. Become more aware of cultural, social, political, environmental, and economic forces within the world they live.
2. Raise their ethnic consciousness to a higher level of understanding and acceptance.
3. Build skills in critical thinking, reading and writing.
4. Improve skills cited above to provide an excellent base for transfer and success at four-year institutions.

REQUIRED COURSES	Units
SOC 001 Introduction to Sociology	3
SOC 002 Social Issues and Problems	3
PSYC 004 Research Methods in Behavioral Science	3
MATH 011 Elementary Statistics	4
SOC 040 Sociology of the Family	3
Once course from List A	3
Required Major Total Units	19

List A: (select one course)	Units
SJS 002 Introduction to Race and Ethnicity	3
SJS 030 Peace, Non Violence, and Conflict Resolution	3
SOC 045 Sociology of Religion	3
SOC 075 Introduction to Sociology of Sport	3

CSU General Education or IGETC Pattern Units ...	37-39
CSU Transferable Electives (as needed to reach 60 transferable units)*	11-13
Total Degree Units	60

** 9 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.*

Sociology

Sociology

Program Description

Sociology is the study of society and human behavior. Students who obtain a degree in Sociology gain a fundamental understanding of culture, socialization, inequality, racial and ethnic relations, sex roles, deviance, social issues and problems, and the distribution of political and economic power. Sociology students prepare themselves for a job in the field of business, health, education, criminal justice, government/law, or social service, and a variety of other areas.

Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing the 18-19-unit major, general education requirements and electives. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis

Program Outcomes

Students who complete the Sociology Associate Degree will be able to:

1. Demonstrate knowledge of cultural, social, political, environmental, and economic forces within the world they live.
2. Demonstrate awareness of equity issues within and between ethnic groups.
3. Demonstrate an ability to critically analyze sociological concepts and issues.

REQUIRED COURSES	Units
SOC 001 Introduction to Sociology	3
SOC 002 Social Issues and Problems	3
PSYC 004 Research Methods in Behavioral Science	3
Two courses from List A	6
One course from List B	3-4
Total Units	18-19

List A: (select two courses).....	Units
SOC 023 Sociology of African Americans	3
SOC 040 Sociology of the Family	3
SOC 045 Sociology of Religion	3
SOC 075 Introduction to Sociology of Sport	3

List B: (select one course).....	Units
ANTH 002 Cultural Anthropology	3
MATH 011 Elementary Statistics	4
PLSC 019 Human Rights and Sexual Orientation	3
PSYC 030 Introduction to Social Psychology	3
SJS 002 Introduction to Race and Ethnicity.....	3

CSU General Education or IGETC Pattern units	37-39
Transferable Electives (as needed to reach 60 units)	14-17
Total Degree Units CSU GE or IGETC	60

Solano General Education	21
Electives (as needed to reach 60 units)	20-21
Total Degree Units Solano GE	60

**12 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.*

Sociology

SOC 001 Introduction to Sociology**3.0 Units**

General Education: Option A: Area B2; Option B: Area 4;
Option C: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to sociology with analysis of a variety of concepts and theories in relation to culture, socialization, social inequality, race relations, sex roles, deviance, and the distribution of political and economic power. (C-ID SOCI 110)

SOC 002 Social Issues and Problems**3.0 Units**

Course Advisory: SOC 001

General Education: Option A: Area B1; Option B: Area 4;
Option C: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

Analysis of selected social problems, including race relations, urban decay, suburban sprawl, crime, population problems, environment, and changes in the familial, economic and political institutions. (C-ID SOCI 115)

SOC 023 Sociology of African Americans**3.0 Units**

Course Advisory: SOC 001 or SOC 022

General Education: Option A: Area B2; Option B: Area 4; Option C:
Area D

Transferable to UC/CSU

Hours: 48-54 lecture

An introductory sociological study of African Americans. Emphasis will be on culture, community, social institutions, social relationships and social problems.

SOC 040 Sociology of the Family**3.0 Units**

Course Advisory: SOC 001

General Education: Option B: Area 4; Option C: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

A comparative cultural view of the family as an institution, the history of the family and its present role in our society with a special emphasis on kinship relations, sex roles, ethnic and economic variations of the family, and alternative family styles. (C-ID SOCI 130)

SOC 045 Sociology of Religion**3.0 Units**

General Education: Option B: Area 4; Option C: Area D
Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to the sociological study of religion in the United States, with an emphasis on the origins of religion, theoretical perspectives on religion, religious conflict, and the future of religion. This course also covers the absence of religion and alternative forms of religion.

SOC 049 Sociology Honors**1.0 to 3.0 Units**

Prerequisite: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability

Transferable to CSU

Hours: 48-162 lab by arrangement.

Independent study designed for honor students who intend to major in sociology. Students may take this course up to the maximum number of units over multiple semesters.

SOC 075 Introduction to Sociology of Sport**3.0 Units**

Course Advisory: SOC 001

General Education: Option C: Area D

Transferable to CSU

Hours: 48-54 lecture

Examines the nature, position, functions, and growing importance of sports in contemporary industrial society. Particular emphasis is given to the relationships between structure, variety, and extent of sports activity and other sectors of society, such as schools, churches, and the work place.

Spanish

Associate in Arts in Spanish for Transfer (ADT: A.A.-T)

and

Foreign Languages, Individual (Spanish) (A.A.)

These programs as well as the SPAN courses are listed under "Foreign Languages"

Sports Medicine

Sports Medicine/Athletic Training (A.S.)

This program as well as the SPMD courses are listed under "Kinesiology"

Theatre Arts for Transfer (AA-T)

CAREER PATHS:

Actor, Dancer, and/or Singer
 Art or Drama Therapist
 Costumer Designer
 Stage Manager
 Set and Exhibit Designer

Technical Theater Crew Member
 Theater Teacher
 Theater Director
 TV/Film Production Assistant

Additional Career Paths and related data, including state-by-state wage info and growth in the field, can be found at www.onetonline.org.

This program map represents one possible pathway. See a counselor to create a customized education plan. Map is for the 2019-2020 catalog year.

1

FIRST SEMESTER

Total Recommended Units: 14-15

- THEA 001** 3 units
Acting 1
- THEA 024 or 047** 3-4 units
Performance/Production
- ENGL 001** 4 units
College Composition (IGETC 1A)
- LR 010** 1 units
Library Research and Information Competency
- IGETC 2** 3 units
Suggested: MATH 017

2

SECOND SEMESTER

Total Recommended Units: 16

- THEA 006** 3 units
Introduction to Theatre (IGETC 3A)
- THEA LIST A of ADT** 3 units
- IGETC 1C** 3 units
Suggested: COMM 001, 002, or 006
- IGETC 1B** 4 units
Suggested: ENGL 002 OR 004
- IGETC 5A or 5B** 3 units
Without Lab. Suggested: GEOG 001

3

THIRD SEMESTER

Total Recommended Units: 16

- THEA LIST A of ADT** 3 units
- THEA LIST A of ADT** 3 units
- IGETC 5A or 5B with Lab** 4 units
Suggested: BIO 016 with BIO 016L
- IGETC 3B/Am Inst Grp 2** 3 units
Suggested HIST 017 or 018 or 028 or 029 or 037
- IGETC 4** 3 units

4

FOURTH SEMESTER

Total Recommended Units: 15

- IGETC 3A or 3B** 3 units
- IGETC 4** 3 units
- IGETC 4/Am Inst Grp 1** 3 units
Suggested: PLSC 001 or 005
- Transferable Elective** 3 units
Course #001-049
- Transferable Elective** 3 units
Course #001-049

Required Courses/Courses in Discipline

GE Courses/Categories



SOLANO
COMMUNITY COLLEGE

Theater Arts

Associate in Arts for Transfer
 GE Pattern: IGETC Program
 Total Units: 61-62

For more information
 please contact:
 (707) 864-7114

GET STARTED NOW!

▶ **Get started on your Pathway now with these recommended courses!**

Then – See a counselor to create a **CUSTOMIZED** education plan personalized to your career and transfer goals!

▶ Required courses may change depending on a student's career and transfer goals, including requirements for cross-cultural and foreign language courses, and/or specific requirements for an individual CSU or UC.

Unique transfer requirements for a specific institution can be found at www.assist.org.

LET US HELP YOU!

How to Apply: solano.edu/ar/apply.php

- **Questions? Talk to a Counselor Now!**
 Main Campus, Fairfield: (707) 864-7101
 Vacaville Center: (707) 863-7836
 Vallejo Center: (707) 642-8188
 Travis AFB: (707) 863-7878
 Visit online at solano.edu/counseling
- **Contact Our Career Center to Learn Your Career Options!**
 Call 707-864-7124, or email at CareerCenter@solano.edu
 Visit online at solano.edu/career
- **You Can Afford College! Learn more about Financial Aid!**
 Call 707-864-7103, or email at FinancialAid@solano.edu
 Visit online at solano.edu/financial_aid
- **College is Accessible!** Contact our Disability Services Program (DSP) at 707-864-7136.

2020-2021 catalog
 year Pathways
 coming soon.

Theatre Arts

Associate in Arts in Theatre Arts for Transfer (ADT: A.A.-T)

Program Description

Theatre teaches practical skills, performance techniques, and creativity. It is the goal of this department to provide students with the tools needed to pursue a university degree or a career in the performing arts. In terms of university degrees, the curriculum of all core Solano College Theatre courses have been designed to equal courses offered in the UC and CSU system. In terms of careers in the performing arts, a wide range of academic and professional opportunities exists. These job opportunities include work in stage performance, television/film acting, lighting, sound, stage makeup design, costume design, house management, theatre education, theatre for youth, stage management, and even sporting event production.

Associate in Arts in Theatre Arts for Transfer Degree

The Associate in Arts in Theatre Arts for Transfer (A.A.-T) is intended for students who plan to complete a bachelor's degree in performance theatre or technical theatre. Students completing this degree (A.A.-T in Theatre) are guaranteed admission to the CSU system, but not to a particular class or major.

To earn the Associate in Arts in Theatre Arts for Transfer degree, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Theatre Arts for Transfer degree will be able to:

1. Demonstrate comprehension of technical elements and design processes.
2. Provide evidence of vocal and physical performance techniques.
3. Assess written materials for context, theme, structure, and technical requirements.
4. Express the relationship between culture and dramatic art, using scholarly sources to analyze the performing art persuasively and thoroughly.

REQUIRED COURSES	Units
THEA 006 Introduction to Theatre	3
THEA 001 Acting 1.....	3
3-4 Units of a Performance/Production Course.....	3-4
Three courses from List A	9
Required Major Total Units	18-19

Performance/Production (select 3-4 Units).....	Units
THEA 024A Rehearsal and Performance in Production Comedy	4
THEA 024B Rehearsal and Performance in Production Drama	4
THEA 024C Rehearsal and Performance in Production Classical	4
THEA 024D Rehearsal and Performance in Production Musical	4
THEA 047A Technical Theatre in Production – Comedy	3
THEA 047B Technical Theatre in Production – Drama.....	3
THEA 047C Technical Theatre in Production – Classical	3
THEA 047D Technical Theatre in Production – Musical	3

List A (select 3 courses)	Units
THEA 002 Acting 2.....	3
THEA 003 Stagecraft.....	3
THEA 008 Stage Make-Up	3
THEA 009 Script Analysis.....	3
THEA 020 Introduction to Stage Lighting.....	3
THEA 021 Introduction to Theatre Design.....	3
THEA 032A Fundamentals of Costume Design – Comedy	3
THEA 032B Fundamentals of Costume Design – Drama	3
THEA 032C Fundamentals of Costume Design – Classical	3
THEA 032D Fundamentals of Costume Design – Musical.....	3
CSU General Education or IGETC Pattern Units	37-39
CSU Transferable Electives (as needed to reach 60 transferable units)*	4-9
Total Degree Units	60

* 3 - 6 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Theatre Arts

Theatre Arts

Program Description

The Theatre Arts Major is designed for students who are furthering their theatre education, as well as those seeking a career in the entertainment industry. In terms of university degrees, the curriculum of all core Solano College Theatre courses have been designed to equal courses offered in the UC and CSU system. Whether choosing the Acting or Technical emphasis, the major will provide a basic theatre foundation which will include “hands on experiences” in Acting, Stagecraft, Lighting and Costuming, as well as the historical and cultural background necessary for understanding the craft. Individuals interested in this major may also be seeking a foundation for lifelong learning.

Associate in Arts Degree

The Associate in Arts Degree in Theatre Arts can be obtained by completing the 30-31-unit major, general education requirements, and electives. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Theatre Arts Associate Degree will be able to:

1. Read and analyze written materials for context, theme and dramatic intent.
2. Demonstrate comprehension of vocal and physical performance techniques.
3. Demonstrate comprehension of technical and artistic production elements including; stagecraft, scenery, costumes, lighting and sound.
4. Utilize and apply current theatrical technology.

REQUIRED CORE: Units

THEA 001 Acting 1.....	3
THEA 003 Stagecraft	3
THEA 006 Introduction to Theatre	3
THEA 010 Theatre History 1.....	3
THEA 011 Theatre History 2.....	3
One Production course.....	3-4
Choose Acting or Technical Emphasis	6
6 units from List A.....	6

Required Major Total Units30-31

Production courses: (select one)..... Units

THEA 024 Rehearsal and Performance Production	4
THEA 047 Technical Theatre in Production	3

Select an Emphasis (Acting or Technical)

Acting Emphasis: (both courses required) Units

THEA 002 Acting 2	3
THEA 035 Fundamentals of Musical Theatre: Acting	3

Technical Emphasis: (both courses required) Units

THEA 020 Introduction to Stage Lighting	3
THEA 032A Fundamentals of Costume Design	3

List A: (select 6 units) Units

THEA 005 Applied Drama	3
THEA 008 Stage Make-Up	3
THEA 009 Script Analysis.....	3
THEA 021 Introduction to Theatre Design	3
THEA 032B Fundamentals of Costume Design	3
THEA 050 Acting for the Camera	3
THEA 055 Advanced Theatre Touring Company	1

CSU General Education or IGETC Pattern units....37-39

Transferable Electives (as needed to reach 60 units)..... 0

Total Degree Units CSU GE or IGETC61-64

Solano General Education..... 21

Electives (as needed to reach 60 units).....8-9

Total Degree Units Solano GE..... 60

**6 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.*

Theatre Arts

Theatre Arts Technical

Program Description

The Theatre Arts Technical Certificate program prepares students for an entry-level career in Community and Professional Theatre. Beginning careers may include: Scene Shop Technician, Stage Electrician, Property Artisan, Costume Technician, Make-Up Technician, Scenic Artist, Audio Technician, Stage Manager, and Event Tech.

Certificate of Achievement

The Certificate of Achievement can be obtained by completing the 33-33.5-unit major. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Theatre Arts Technical Certificate of Achievement will be able to:

1. Work effectively with Lighting and Scenery design plans.
2. Work competently with common materials and techniques when constructing theatrical elements.
3. Apply fundamental techniques while participating as a member of a backstage production crew.
4. Demonstrate basic skills in one or more of the following areas of specialization. lighting hangs and focus, scenic carpentry, scenic painting, audio set up and signal routing.
5. Integrate knowledge of theatre history and literature when constructing theatrical elements.

REQUIRED CORE:	Units
THEA 001 Acting 1.....	3
THEA 003 Stagecraft	3
THEA 006 Introduction to Theatre	3
THEA 020 Introduction to Stage Lighting.....	3
THEA 047 Technical Theatre in Production (4 semesters).....	12
9-9.5 units from List A	9-9.5
Total Units	33-33.5

List A: (select 9-9.5 units).....	Units
THEA 008 Stage Make-Up	3
THEA 009 Script Analysis.....	3
THEA 021 Introduction to Theatre Design.....	3
THEA 032A Fundamentals of Costume Design	3
THEA 032B Fundamentals of Costume Design.....	1.5
ART 006 Design Principles in 2-Dimensions	3.5
DRFT 045 Introduction to Computer-Aided Drafting (CAD).....	3
WELD 125 Gas Metal Arc Welding.....	3

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Theatre Arts Technical."

THEA 001 Acting 1

General Education: Opt. C: Area C1

Transferable to UC/CSU

Hours: 48-54 lecture

Prepares a student to apply basic acting theory to performance and develops the skills of interpretation of drama through acting. Special attention is paid to skills for performance: memorization, stage movement, vocal production, and interpretation of text. (C-ID THTR 151)

3.0 Units

THEA 003 Stagecraft

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Introduction to the backstage aspects of live theatre and the creation of technical elements. Includes basic concepts of scene design, scene painting techniques, set construction, set movement, prop construction, backstage organization and career possibilities. May include stage management, lighting, and/or sound techniques. Lecture, reading, projects, and hands on practical experience. Students will participate in the planning, design, set construction, and painting of a main college theatrical event as determined by the instructor. Repeatable 1 time. (C-ID THTR 171)

3.0 Units

THEA 002 Acting 2

Prerequisite: THEA 001 with a minimum grade of C

General Education: Opt. C: Area C1

Transferable to UC/CSU

Hours: 48-54 lecture

Continued study of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process through character analysis, monologues, and scenes. (C-ID THTR 152)

3.0 Units

Theatre Arts

THEA 005 Applied Drama

2.0 Units

*Prerequisite: Audition; A minimum grade of C in THEA 001 and THEA 003
Transferable to UC/CSU*

Hours: 16-18 lecture, 48-54 lab

The study and rehearsal of dramatic, comedic and musical works for the stage which includes: classical plays, contemporary dramas and comedies, revues, musicals, and one-acts. Students participate as actors, ensemble members, directors, production designers and/or technicians.

THEA 006 Introduction to Theatre

3.0 Units

*General Education: Opt. A: Area C; Opt. B: Area 3A; Opt. C: Area C1
Transferable to UC/CSU*

Hours: 48-54 lecture

Focuses on the relationship of theatre to various cultures throughout history, and on the contributions of significant individual artists. This course introduces students to elements of the production process including playwriting, acting, directing, design, and criticism. Students will also survey different periods, styles and genres of theatre through play reading, discussion, films and viewing and critiquing live theatre, including required attendance of theatre productions. This is an audience oriented, non-performance course. Field trips will be required. (C-ID THTR 111)

THEA 008 Stage Make-Up

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Students will receive instruction and practice in a lecture/laboratory setting in all phases of makeup specifically designed for theatrical use. (C-ID THTR 175)

THEA 009 Script Analysis

3.0 Units

General Education: Opt. B: Area 3A; Opt. C: Area C1

Transferable to UC/CSU

Hours: 48-54 lecture

Fully explore an in-depth methodology of reading, analyzing and understanding play scripts in a variety of genres and styles intended for production. Investigate techniques used to determine how to read a play for its structure, scrutinizing the playwright's methods of creating theatre through plot, character and imagery, and understanding what scripts "mean" to the professional theatre artist and audience as distinct from other forms of literature. (C-ID THTR 114)

THEA 010 Theatre History 1

3.0 Units

*General Education: Opt. A: Area C; Opt. B: Area 3A; Opt. C: Area C1
Transferable to UC/CSU*

Hours: 48-54 lecture

The study of the history of theatre from the Origins of Theatre through the 17th Century. The history and development of theatre and drama are studied in relationship to cultural, political and social conditions of the time. Plays are read for analysis of structure, plot, character and historical relevance. Field trip may be required.

THEA 011 Theatre History 2

3.0 Units

*General Education: Opt. A: Area C; Opt. B: Area 3A; Opt. C: Area C1
Transferable to UC/CSU*

Hours: 48-54 lecture

The study of the history of theatre from the 17th Century to contemporary times. The history and development of theatre and drama are studied in relationship to cultural, political and social conditions of the time. Plays are read for analysis of structure, plot, character and historical relevance. Contemporary multicultural theatre will be emphasized.

THEA 013

3.0 Units

Diversity in American Theatre: A Contemporary Focus

*General Education: Opt. A: Area C, E; Opt. B: Area 3A, SCC Cross-Cultural;
Opt. C: Area C1, SCC Cross-Cultural*

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to American cultural diversity in theatrical performance, this course will study African-American, Asian-American and Latino(a) theatres, and theatrical representations including TV and film, supplemented by consideration of the social and political conditions impacting these works. Journals, exams, and scene performance or readings and oral reports or critical papers are required.

THEA 020 Introduction to Stage Lighting

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

The study and execution of stage lighting with an emphasis on equipment, control, color and their relationship to design. This course discusses the methods and materials utilized in designing lighting for the stage. Focus on the practical skills needed to complete a light design project. (C-ID THTR 173)

Theatre Arts

THEA 021 Introduction to Theatre Design

3.0 Units

Prerequisite: THEA 003 with a minimum grade of C
Course Advisory: ENGL 001 with a minimum grade of C
Transferable to UC/CSU
Hours: 32-36 lecture, 48-54 lab

Students will be offered a survey of scenery, lighting, sound, costumes, make up, properties, theatrical equipment and construction techniques through demonstration and laboratory experience. Information will be applicable to all formal theatrical applications. (C-ID THTR 172)

THEA 024

4.0 Units

Rehearsal and Performance in Production

Hours: 30-33.75 lecture, 160-180 lab by arrangement

Instruction and supervised participation in theatre rehearsal and performance. Instruction will be focused upon the unique elements and demands of a live stage production. The production(s) can be: A Comedy, Drama, Classical and a Musical. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater. Repeatable 3 times.

THEA 024A

4.0 Units

Rehearsal and Performance in Production - Comedy

Transferable to UC/CSU

Hours: 30-33.75 lab, 160-180 lab by arrangement

Instruction and supervised participation in theatre rehearsal and performance. Instruction will be focused upon the unique elements and demands of comedy. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater. (C-ID THTR 191)

THEA 024B

4.0 Units

Rehearsal and Performance in Production - Drama

Transferable to UC/CSU

Hours: 30-33.75 lab, 160-180 lab by arrangement

Instruction and supervised participation in theatre rehearsal and performance. More specifically, this class is designed to approach the unique requirements of producing contemporary drama. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater. (C-ID THTR 191)

THEA 024C

4.0 Units

Rehearsal and Performance in Production - Classical

Transferable to UC/CSU

Hours: 30-33.75 lab, 160-180 lab by arrangement

Instruction and supervised participation in a classical theatre production. Scripts selected may include classical Greek, Roman, medieval, renaissance, and restoration dramas. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater. (C-ID THTR 191)

THEA 024D

4.0 Units

Rehearsal and Performance in Production - Musical

Transferable to UC/CSU

Hours: 30-33.75 lab, 160-180 lab by arrangement

Instruction and supervised participation in musical theatre rehearsal and performance, including operas, operettas, and musicals. Students will participate as vocalists, musicians, dancers and accompanists. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater. (C-ID THTR 191)

THEA 027

3.0 Units

Technical Theatre in Production Show Run Crew

Transferable to UC/CSU

Hours: 144-162 lab

A practicum course oriented for the student to work with the technical requirements used in a production. The type(s) of production can be: Comedy, Drama, Classical and Musical. Students will gain practical experience in the application of production responsibilities in any of the following for live show running crews: Properties, Costume, Lighting, Sound, Stage Management and house management. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

THEA 027A

3.0 Units

Technical Theatre in Production Show Run Crew - Comedy

Transferable to UC/CSU

Hours: 144-162 lab

A practicum course oriented for the student to work with the unique technical requirements used in a comedy production, such as abstract and whimsical scenic design elements, comic color pallets and special property elements that are designed specifically to 'get a laugh'. Students will gain practical experience in the application of production run responsibilities in any of the following: stage management, house management, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

Theatre Arts

THEA 027B

3.0 Units

Technical Theatre in Production Show Run Crew - Drama

Transferable to UC/CSU

Hours: 144-162 lab

A practicum course oriented for the student to work with the unique technical requirements as used in a dramatic production such as, realistic and period scenic design elements: architecture as well as natural settings. Students will gain practical experience in the application of production responsibilities in any of the following for live show running crews: Properties, Costume, Lighting, Sound, Stage Management and house management. Students are given an increasing level of responsibility in accordance with their individual abilities.

THEA 027C

3.0 Units

Technical Theatre in Production Show Run Crew - Classical

Transferable to UC/CSU

Hours: 144-162 lab

A practicum course oriented for the student to work with the unique technical requirements used in a classical production, such as historical and renaissance period design pieces and accurate stage properties of the time. The students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

THEA 027D

3.0 Units

Technical Theatre in Production Show Run Crew - Musical

Transferable to UC/CSU

Hours: 144-162 lab

A practicum course oriented for the student to work with the unique technical requirements used in a musical theatre production, such work can involve use of, scenery that has multiple settings, set pieces that employ special rigging, scenic wagons as well as special live audio and lighting effects. The students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

THEA 032A Fundamentals of Costume Design 3.0 Units

Transferable to UC/CSU

Hours: 16-18 lecture, 96-108 lab

Students will study costume history, design, and basic construction techniques as an introduction to theatrical costuming. Subject material can cover a variety of theatre genres, including: Musical Theatre, Drama, Comedy, and Classical works. Emphasis on illustration and design elements, including story boards and renderings. Students will analyze and examine scripts and research items related to costuming. Students will explore and learn how stock characters and their costumes can support an exaggerated theme and how these characters can have multiple costumes. Repeatable one time. (C-ID THTR 174)

THEA 032B Fundamentals of Costume Design 1.5 Units

Transferable to UC/CSU

Hours: 72-81 lab

This lab course is oriented for the student to work with the Costume requirements used in a production. The type(s) of production can be: Comedy, Drama, Classical and Musical. Students will gain practical experience in the application of Costume responsibilities in any of the following: Assistant Designer, Tailor, Milliner, Cobbler, Cutter, Draper, Dyeing and painting, and alterations. Students will be given an increasing level of responsibility in accordance with their individual abilities. Repeatable 3 times.

THEA 032C

3.0 Units

Fundamentals of Costume Design - Classical

Transferable to UC/CSU

Hours: 16-18 lecture, 96-108 lab

Students will learn how to research costuming from historical Western eras such as: Greek, Roman, Medieval, and the Renaissance. Students will also study ancient Eastern, African, or other historical costumes, depending upon the semester's theatre production. Tailoring, heirloom sewing, theatrical closures, alterations and sewing shortcuts will also be included in instruction. (C-ID THTR 174)

Theatre Arts

THEA 032D

Fundamentals of Costume Design - Musical

Transferable to CSU

Hours: 16-18 lecture, 96-108 lab

Students will study musical costume history, design, and basic construction techniques as an introduction to musical theatre costuming. Fabrics and their various uses will be investigated. Students will learn how to design costumes for large musical casts with multiple costume changes. Students will also learn how music and dance influence costume construction. Each student will be given an increasing level of responsibilities in accordance with individual abilities. Successful completion of the costume production process may culminate in the areas of: Co-Costume Designer, Assistant Designer, Cutter, Tailor, First Hand, Stitcher, Milliner, Cobbler, Crafts Artisan, Wardrobe Supervisor or Dresser. Repeatable to a maximum of 12 units, including initial enrollment. (C-ID THTR 174)

3.0 Units

THEA 035

Fundamentals of Musical Theatre: Acting

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

The study, rehearsal, and class performance of musical works for the stage. Students will participate as performers, singing and moving but with an emphasis on acting.

3.0 Units

THEA 040 Acting for the Camera

Transferable to UC/CSU

Hours: 48-54 lecture

A professional approach to the basics of on-camera acting. Areas of concentration include commercials, public service announcements, corporate videos, news reporting, and feature films. The course includes an in-depth approach to careers in media with concentration on agents, casting directors, resumes, pictures and the necessary tools for building a life as an actor.

3.0 Units

THEA 047 Technical Theatre in Production

Transferable to CSU

Hours: 144-162 lab by arrangement

Oriented for the student to work with the technical requirements used in a production. The type(s) of production can be: Comedy, Drama, Classical and Musical. Students will gain practical experience in the application of production responsibilities in any of the following: Set Construction, Scenic painting, properties, costume, lighting, sound, live show running crews, stage management and house management. Students are given an increasing level of responsibility in accordance with their individual abilities. Repeatable 3 times.

3.0 Units

THEA 047A

Technical Theatre in Production - Comedy

Transferable to UC/CSU

Hours: 144-162 lab

Oriented for the student to work with the unique technical requirements used in a Comedy production, such as abstract and whimsical scenic design elements, comic color pallets and special property elements that are designed specifically to 'get a laugh'. Students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

3.0 Units

THEA 047B

Technical Theatre in Production - Drama

Transferable to UC/CSU

Hours: 144-162 lab

Oriented for the student to work with the unique technical requirements used in a Drama production, such as, Realistic and period scenic design elements: Architecture as well as natural settings. The student will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

3.0 Units

THEA 047C

Technical Theatre in Production - Classical

Transferable to UC/CSU

Hours: 144-162 lab

Oriented for the student to work with the unique technical requirements used in a Classical production, such as Historical and renaissance period design pieces and accurate stage properties of the time. The students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

3.0 Units

Theatre Arts

THEA 047D

Technical Theatre in Production - Musical

Transferable to UC/CSU

Hours: 144-162 lab

Designed for the student to work with the unique technical requirements used in a Musical Theatre Production: Such work can involve use of scenery that has multiple settings, set pieces that employ special rigging, scenic wagons as well as special live audio and lighting effects. The students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

3.0 Units

THEA 055 Advanced Theatre Touring Company

1.0 Unit

Transferable to CSU

Hours: 8-9 lecture, 24-27 lab

Students will prepare and rehearse performances to tour throughout Solano County. Travel is required to various Solano County schools and venues for performances.

Transfer Studies

Transfer Studies with IGETC Emphasis

Program Description

This certificate is designed for students who intend to complete university general education requirements prior to transfer to a University of California (UC) or California State University (CSU) campus. Completion of the Intersegmental General Education Transfer Curriculum will permit a student to transfer from a Solano Community College to a UC or CSU campus generally without the need, after transfer, to take additional lower-division, general education courses to satisfy campus general education requirements.

Certificate of Achievement

A Certificate of Achievement can be obtained by completing a minimum of 34-37-units from the Intersegmental General Education Transfer Curriculum (IGETC) Pattern. All courses for this certificate must be completed with a minimum grade of C or a P if taken on a Pass/No Pass basis.

REQUIRED COURSESUnits (minimum)

See Intersegmental General Education Transfer Curriculum (IGETC) Pattern. - Option B

Area 1	6-9
Area 2	3
Area 3	9
Area 4	9
Area 5	7
Total Units	34-37

Transfer Studies with CSU GE Emphasis

Program Description

This certificate is designed for students who intend to complete university general education requirements prior to transfer to a California State University (CSU) campus. Completion of the California State University General Education – Breadth (CSU GE-B) will permit a student to transfer from a Solano Community College to a CSU campus generally without the need, after transfer, to take additional lower-division, general education courses to satisfy campus general education requirements.

Certificate of Achievement

A Certificate of Achievement can be obtained by completing a minimum of 39-units from the California State University General Education Breadth (CSU GE) Pattern. All courses for this certificate must be completed with a minimum grade of C or a P if taken on a Pass/No Pass basis.

REQUIRED COURSESUnits (minimum)

See California State University General Education Breadth (CSU GE) Pattern - Option C

Area A	9
Area B	9
Area C	9
Area D	9
Area E	3
Total Units	39

Tutoring

Program Description

These courses are designed for students using tutoring services on a drop-in basis or for students wishing to serve as tutors.

Associate Degree

Not offered in this discipline

TUTR 050 Tutoring Practicum

0.5 Unit

Prerequisite: Completion with a minimum grade of B in the subject to tutor, instructor recommendation, permission of Tutoring Center personnel after verification of prerequisites, and concurrent assignment as a Tutoring Center or in-class tutor

Transferable to CSU

Hours: 8-9 lecture

Supervised practice in tutoring, examines the basics of learning principles, communication, listening skills, effective tutoring techniques and is required for all students who work or volunteer in the Tutoring Center.

TUTR 500 Supervised Tutoring

0.0 Units

Prerequisite: Recommendation by the course instructor or a counselor or permission of the TUTR 500 instructor of record

Corequisite: concurrent enrollment in course or courses in which tutoring assistance is being requested

Hours: 16-180 lab

Provides students tutorial support with instructional aids and student tutors to develop learning skills that enhance classroom achievement. In addition, Critical Skills for College Success Workshops are offered in many instructional areas. Tutor-supported computer labs are provided for academic use. This is an Open Entry/Open Exit, ungraded course.

Water and Wastewater Technology

Water and Wastewater Technology

Program Description

A study of the principles of water and wastewater disposal and purification including municipal and industrial wastewater collection and treatment. The program will satisfy most of the requirements for certification of water and wastewater treatment personnel.

Certificate of Achievement and Associate in Science

A Certificate of Achievement can be obtained upon completion of the 25-32-unit major. The Associate in Science Degree can be obtained upon completion of the 25-32 unit major, SCC General Education - Option A, and electives. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Water and Wastewater Technology Certificate of Achievement/ Associate Degree will be able to

1. Attain certification of plant operators.
2. Understand treatment methods and technology.
3. Understand technology laws and regulations.

REQUIRED CORE COURSES Units

WATR 100 Wastewater Treatment I 4

WATR 101 Basic Chemistry for Water
and Wastewater 4

or
WATR 102 Sanitary Chemistry 4

WATR 104 Water Treatment I 3

WATR 106 Instrumentation and Controls 3

WATR 107 Mathematics of Water and
Wastewater Treatment 4

Two courses from Specialty Courses..... 4-5

Select Option 1, 2 or 3 3-9

Required Major Total Units 25-32

Specialty Courses (select two courses) Units

WATR 105 Wastewater Treatment II 3

WATR 108 Water Treatment II 2

WATR 120 Distribution Systems Maintenance 2

WATR 121 Collection Systems Maintenance 2

Select from the following options:

OPTION 1

BIOT 160 Basic Concepts/Methods in
Biotechnology 4

OPTION 2

BIO 014 Principles of Microbiology 4
One course from List A

List A

CHEM 010 Intermediate Chemistry 4

CHEM 051 Chemistry for the Health Sciences 5

CHEM 001 General Chemistry I 5

OPTION 3

WATR 103 Biological Principles of Water
and Wastewater 3

Solano General Education..... 21

Electives (as needed to reach 60 units)..... 7-14

Total Degree Units Solano GE..... 60

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Water & Wastewater Technology."

Water and Wastewater Technology

WATR 100 Wastewater Treatment I 4.0 Units <i>Hours: 64-72 lecture</i> Study of municipal and industrial wastewater collection and wastewater treatment methods, protection of ground water and receiving waters, and effects of pollutants on receiving waters.	WATR 108 Water Treatment II 3.0 Units <i>Prerequisite: WATR 104 with a minimum grade of C</i> <i>Hours: 48-54 lecture</i> Advanced topics in the control of ions and disinfecting chemicals in drinking water. In addition it covers the issues of safety, regulation, administration, and maintenance of a water treatment plant. This course will often be taught at an off-campus site. Three hours lecture.
WATR 101 Basic Chemistry for Water and Wastewater 4.0 Units <i>Hours: 64-72 lecture</i> Through lecture and demonstrations, the student will develop the ability to analyze and determine if proper levels of purification, content of acidity, alkalinity, hardness, and other water quality criteria have been achieved for water or wastewater treatment.	WATR 112 Wastewater Treatment III 2.0 Units <i>Prerequisite: WATR 105</i> <i>Hours: 32-36 lecture</i> Advanced topics appropriate to a wastewater treatment facility including activated sludge, residual solids management, solids removal from secondary effluents, phosphorus and nitrogen removal, enhanced biological (nutrient) control, wastewater reclamation and recycling, and odor control. This course is often taught off-site.
WATR 103 Biological Principles of Water and Wastewater 3.0 Units <i>Hours: 48-54 lecture</i> Examine the biological and ecological properties of the bacteria, protozoa, fungi, algae, viruses, and animals whose control is important to the provision of safe drinking water supplies and environmentally safe wastewater. The course emphasizes the microbiology of drinking water, wastewater, and activated sludge, and examines the microbial sampling, analysis, and treatment strategies important in this industry.	WATR 120 Distribution Systems Maintenance 2.0 Units <i>Hours: 32-36 lecture</i> Study of the operation and maintenance of water distribution systems covering the design, construction and the functioning of these systems.
WATR 104 Water Treatment I 3.0 Units <i>Hours: 48-54 lecture</i> Examine the elementary engineering aspects of the design, operation, process control, and facilities of a plant designed to treat and purify drinking water.	WATR 121 Collection Systems Maintenance 2.0 Units <i>Hours: 32-36 lecture</i> Study of the operation and maintenance of wastewater collection systems covering the design, construction and functioning of these systems.
WATR 105 Wastewater Treatment II 3.0 Units <i>Prerequisite: WATR 100</i> <i>Hours: 48-54 lecture</i> Study of the elementary engineering aspects of design, operation process control, and maintenance of wastewater treatment plants and facilities.	WATR 125 Water Conservation 2.5 Units <i>Hours: 40-45 lecture</i> Water conservation includes the study of methods to reduce water use, loss, and waste, and methods to increase water efficiency in an effort to minimize the amount of water used to accomplish a function or task. This course combines subject matter lectures and planned learning experiences so students learn the principles involved in the conservation and efficient use of water resources for economic, environmental, and regulatory purposes. Students will learn about water supply and demand; utility water demand characteristics and water rates; residential, commercial, and landscape water use measurements; water management planning, and how to perform various types of water audits.
WATR 106 Instrumentation and Controls 3.0 Units <i>Hours: 48-54 lecture</i> Study of pneumatic, mechanical and electronic control systems and components. Includes a basic description and explanation of the operation of instruments and controls for water and wastewater plants. Typical performance characteristics, accuracy, and applications of instruments are studied.	WATR 126 Pumps and Motors 3.0 Units <i>Hours: 48-54 lecture.</i> This course examines the design and operation of pumps and motors with special emphasis on the types of pumps used in the water and wastewater industries.
WATR 107 Mathematics of Water and Wastewater Treatment 4.0 Units <i>Hours: 64-72 lecture</i> A study of calculations - hydraulics, chemicals, solids - used in the design, operation, process control, and maintenance of treatment plants and facilities.	

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

Welding

Welding Technician

Program Description

Designed to prepare the graduate for employment as a welder or a welder helper in the metal trades. The major types of welding covered are shielded arc, acetylene gas welding, metal inert gas, tungsten inert gas, automatic and semi-automatic welding machines.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 15-unit Certificate Courses. The Associate in Science Degree can be obtained by completing the 15-unit Certificate Courses, the 12-unit Associate Courses, SCC General Education - Option A, and electives. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis. Completion of this program prepares the student to take the welders' certification AWS D1.1 exam.

Program Outcomes

Students who complete the Welding Technician Certificate of Achievement/ Associate Degree will be able to:

1. Demonstrate competency in major welding processes used in industry.
2. Apply welding processes and the use of hand tools and shop equipment to fabricate projects.
3. Recognize and interpret technical drawings in the planning and fabrication of projects.
4. Demonstrate appropriate workplace safety policies and procedures during welding and fabrication operations.
5. Apply mathematical concepts to solve problems related to an industrial/ technical environment.

CERTIFICATE COURSES	Units
DRFT 079 Blueprint Reading	3
WELD 130 Beginning Shielded Metal Arc Welding (Stick 7018/6010 Basic)	3
WELD 131 Intermediate Shielded Metal Arc Welding (Stick Welding)	3
WELD 132 Advanced SMAW (Stick Welding)	3
IT 151 Vocational Mathematics	3
Total Units	15

ADDITIONAL COURSES FOR ASSOCIATE DEGREE	Units
IT 101 Introduction to Mechatronics	3
OCED 070 Occupational Soft Skills	1.5
OCED 071 Occupational Portfolio Development	1.5
WELD 136 Beginning Structural Steel and Flux Core Arc Weld (FCAW)	3
WELD 145 Intermediate Pipe Welding 7018 STK (SMAW)	3
Total Units	27

Required Major Total Units	27
Solano General Education	21
Electives (as needed to reach 60 units)	12
Total Degree Units Solano GE	60

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Welding Technician."

Welding

WELD 130

Beginning Shielded Metal Arc Welding (Stick 7018/ 6010 Basic)

Hours: 32-36 lecture, 48-54 lab

Builds arc welding skills with an emphasis on flat and horizontal welding. Course activities prepare students for welding certification and advanced welding classes. Welding applications and parameters are discussed and applied throughout the class developing the student's ability to problem solve and develop welding skills.

3.0 Units

WELD 131

Intermediate Shielded Metal Arc Welding (Stick Welding)

Prerequisite: WELD 130 with a minimum grade of C

Hours: 32-36 lecture, 48-54 lab

Advances arc welding skills with an emphasis on vertical and overhead welding. Course activities prepare students for welding certification and employment. Welding applications and parameters are discussed and applied throughout the class developing the students ability to problem solve, develop and enhance welding skills.

3.0 Units

WELD 132 Advanced SMAW (Stick Welding) 3.0 Units

Prerequisite: WELD 131 with a minimum grade of C

Hours: 32-36 lecture, 48-54 lab

Advances arc welding skills with an emphasis on vertical and overhead welding. Course activities prepare students for welding certification and employment in the metal trades. Welding applications and parameters are discussed and applied throughout the class developing the students ability to problem solve and develop welding skills. This course is designed to enhance welding skills and employability in the field of structural iron working. This course also prepares the student for the American Welding Society plate code D1.1 unlimited thickness in all position certification.

3.0 Units

WELD 135 MIG (GMAW) Welding

Prerequisite: WELD 130 with a minimum grade of C

Hours: 32-36 lecture, 48-54 lab

Advances the skills previously taught in WELD 130 and moves the student forward in a career of manufacturing and facilities maintenance. This course covers 2F, 3F and 4G positions (vertical and overhead positions). This course also covers Aluminum spool guns and 35 pound Stainless steel 304 and 308 wires.

3.0 Units

WELD 136

Beginning Structural Steel and Flux Core Arc Weld (FCAW)

Prerequisite: WELD 130 with a minimum grade of C

Hours: 32-36 lecture, 48-54 lab

An emphasis on developing skills on structural steel and FCAW practices. Related instruction will include ferrous metal identification and welding characteristics, Flux core welding applications and variable, dual shield inert shielding gases and mixtures, troubleshoot FCAW equipment and welds completed in the flat and horizontal positions (1G and 2G).

3.0 Units

WELD 145

Intermediate Pipe Welding 7018 STK (SMAW)

Prerequisite: WELD 130 with a minimum grade of C

Hours: 32-36 lecture, 48-54 lab

Pipe Welding code, pipe classification and identification with an emphasis on API 1104 certification. Completion of the class does not guarantee certification unless welding procedure qualification tests are passed.

3.0 Units

WELD 175 CNC Plasma (Cutting Automation) 3.0 Units

Hours: 32-36 lecture, 48-54 lab

Educates students on automated plasma cutting skills and processes and related CNC metal working equipment.

WELD 500 Independent Study

Prerequisite: Permission of the instructor

Hours by arrangement as required

Assists with vocational placement for advanced welding students who have sufficient background in welding fundamentals to pursue more independent study in the area of their choice. Each student works by arrangement with the instructor on an outlined program of study, to achieve independent objectives. This is an Open Entry/ Open Exit course.

0.0 Units