

# Nursing

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## *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.

### **Program Requirements and Courses**

All courses taken toward the Registered Nursing Associate Degree must be completed with a minimum grade of C.

### **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 Program Prerequisites**

*To apply to the Registered Nursing Program, the following courses 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) ..... Units**  
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

### **Nursing Program Prerequisites**

*To apply to the Registered Nursing Program, students must have completed all associate level degree General Education Requirements.*

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## REQUIRED COURSES

<b>First Year Courses</b> .....	<b>Units</b>
NURS 071A Foundations of Nursing I*.....	6
NURS 071B Foundations of Nursing II*.....	6
NURS 071S Nursing Simulation Skills Lab I.....	2
NURS 072A Medical/Surgical I and Geriatrics*.....	5
NURS 072B Maternal/Neonatal Nursing*.....	5
NURS 072S Nursing Skills Lab II.....	2

<b>Second Year Courses</b> .....	<b>Units</b>
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
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 course is required.

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.

## REQUIREMENTS FOR ADMISSION TO THE PROGRAM

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. A minimum grade of C in the following pre-major and general education courses:

BIO 004	NUTR 010
BIO 005	PSYC 001
BIO 014	CDFS 070
NURS 052	3 units from Critical Thinking
All GE Graduation Requirements	

## Critical Thinking

COMM 001	COMM 006
COMM 002	ENGL 002

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.

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## 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 CPR card for Healthcare Providers.
- 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](http://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.

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**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 degree from a regionally accredited institution in the US or Canada, your General Education (GE) requirements are complete. If you have an AA/AS degree, your GE *is not automatically complete*. You need to meet the SCC GE requirements. A Counselor can help determine if you have met *all* the 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](mailto: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](mailto: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.

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## *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>

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## *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
<b>Total Units .....</b>	<b>6.5</b>

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## **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 058D Skills Lab IV**

**0.5 Unit**

*Corequisite: NURS 063.*

*Prerequisite: A minimum grade of C in NURS 058 or NURS 058C.*

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

*Transferable to CSU*

*Hours: 24-27 lab.*

This is a 0.5 unit course that is required for students who are enrolled in the fourth semester of the nursing program. Students will continue to build on previously learned concepts, content and participate in more advanced skills and simulations that involve group, peer and instructor evaluations. Students will continue to practice and employ the required knowledge, skills and attitudes of a Registered Nurse through the use of the nursing process and QSEN standards for each course throughout the curriculum. Students are required to demonstrate competency in the required skills modules including venipuncture, tracheostomy care and suctioning, management of a chest tube drainage system and practice of all previously completed skills from prior semesters. Participation in human patient care simulation scenarios is required. Students are required to have purchased a Nursing Skills Lab kit, stethoscope, white lab coat and uniform per the Registered Nursing Student Handbook. This is a Pass/No Pass only course.

## **NURS 063**

**7.0 Units**

### **Advanced Medical Surgical and Community Nursing**

*Corequisite: NURS 058D.*

*Prerequisite: A minimum grade of C in NURS 060 and NURS 061.*

*Course Advisory: SCC minimum English and Math standards. Basic computer navigation skills and frequent internet access is required.*

*Transferable to CSU*

*Hours: 48-54 lecture, 192-216 lab.*

Builds on the concepts introduced in previous nursing courses. Complex alterations in physiological processes are studied as they relate to multi-system illnesses. This course requires students to develop and utilize critical thinking skills in working with patients across the lifespan in emergency, critical care, medical surgical units and the community. The clinical experience affords students the opportunity to apply theoretical knowledge, critical thinking skills (which are inherent to the nursing process), and psychomotor skills to a practical situation. The focus is to provide care to multiple patients across the lifespan who have complex multi-system illnesses and patients in the community. This course facilitates the student's entry into the profession of nursing. Legal and ethical responsibilities related to professional nursing practice are considered. Skill modules and clinical experience is offered concurrently with theory.

## **NURS 065 Role Transition in Practice**

**2.5 Units**

*Corequisite: NURS 064.*

*Prerequisite: NURS 063 with a minimum grade of C.*

*Course Advisory: SCC minimum English and Math standards. 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.

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## **NURS 071A Foundations of Nursing I**

*Prerequisite: Admission to the Registered Nursing Program.*

*Corequisite: NURS 071S.*

*Course Advisory: SCC minimum Math standard.*

*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 access required. 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.*

*Course Advisory: SCC minimum Math standard.*

*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 access required.

## **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 access required. 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 access required.

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## **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 access required.

## **NURS 072S 2.0 Units**

### **Nursing Simulation and Skills Lab II**

*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 Access required.

## **NURS 073 2.0 Units**

### **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 access required.

## **NURS 073A Medical/Surgical II 2.5 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 access required.



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## **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 access required.

## **NURS 073S**

### **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.

## **5.0 Units**

## **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 access required.

## **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 access required.

## **NURS 074S**

## **1.0 Unit**

### **Nursing Simulation and Skills Lab IV**

*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 Access Required.

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## **NURS 103 Certified Nursing Assistant**

**6.5 Units**

*Prerequisite: Applicants must be at least 16 years old.*

*Course Advisory: SCC minimum English and Math standards.*

*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.

## **NURS 105 Acute Care Nursing Assistant**

**2.0 Units**

*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.

## **NURS 111 Medical Terminology**

**3.0 Units**

*Course Advisory: SCC minimum English and Math standards.*

*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.

# 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](http://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

## 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

## 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

## 4 FOURTH SEMESTER

Total Recommended Units: 15

- BIO 014** 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](http://www.assist.org).

## LET US HELP YOU!

How to Apply: [solano.edu/ar/apply.php](http://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](http://solano.edu/counseling)
- **Contact Our Career Center to Learn Your Career Options!**  
Call 707-864-7124, or email at [CareerCenter@solano.edu](mailto:CareerCenter@solano.edu)  
Visit online at [solano.edu/career](http://solano.edu/career)
- **You Can Afford College! Learn more about Financial Aid!**  
Call 707-864-7103, or email at [FinancialAid@solano.edu](mailto:FinancialAid@solano.edu)  
Visit online at [solano.edu/financial\\_aid](http://solano.edu/financial_aid)
- **College is Accessible!** Contact our Disability Services Program (DSP) at 707-864-7136.

# 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.

<b>REQUIRED COURSES</b> .....	<b>Units</b>	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	<b>List C:</b> .....	<b>Units</b>
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
<b>Total Units</b> .....	<b>27-28</b>	SOC 001 Introduction to Sociology .....	3
<b>List A:</b> (select one to two courses).....	<b>Units</b>	<b>Required Major Total Units</b> .....	<b>27-28</b>
CHEM 001 General Chemistry I .....	5	<b>CSU General Education or IGETC Pattern Units</b> ...	<b>37-39</b>
or		<b>CSU Transferable Electives (as needed to reach 60</b>	
CHEM 001 General Chemistry I .....	5	<b>transferable units)*</b> .....	<b>5-12</b>
and		<b>Total Degree Units</b> .....	<b>60</b>
CHEM 002 General Chemistry II.....	5		
<b>List B:</b> (select one or two courses**).....	<b>Units</b>		
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

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## **NUTR 010 Nutrition**

**3.0 Units**

*Course Advisory: Eligibility for ENGL 001 and SCC minimum Math standards.*

*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)*

## **NUTR 012**

**0.5 to 2.0 Units**

### **Evaluating Current Topics in Nutrition**

*Course Advisory: Eligibility for ENGL 001 and SCC minimum Math standards.*

*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.

## **NUTR 054 Child Health, Safety, and Nutrition 3.0 Units**

*Course Advisory: CDFS 038; CDFS 062; Eligibility for ENGL 001.*

*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.

# Occupational Education

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## 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
<b>Total Units</b>	<b>12</b>

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

# Occupational Education

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## **OCED 070 Occupational Soft Skills**

**1.5 Units**

*Course Advisory: Minimum SCC English and Math standards.  
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**

**1.5 Units**

### **Occupational Portfolio Development**

*Course Advisory: SCC minimum English standard.  
Transferable to CSU  
Hours: 24-27 lecture.*

Innovative in career planning, career portfolios are designed to assist in demonstrating skills and competencies. In this course, participants 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. Participants will analyze how the career portfolio can be used as a tool for the job search as well as career advancement. A hard copy and/or electronic career portfolio will be completed by the end of this course.

## **OCED 090**

**1.0 to 8.0 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 relate to student's major field.*

*Course Advisory: SCC minimum English and Math standards.*

To qualify for Occupational Work Experience credit, the student must be working (paid or unpaid) for a legal business in a position directly related to the declared major. Students must work 75 hours per unit of credit for paid work and 60 hours per unit of credit for unpaid work. Students will attend a weekly coordination seminar and develop job-oriented objectives. OCED 090 may be required for some majors and is an elective for all occupational education certificate and degree programs. Qualified students who are not working or volunteering may seek placement assistance from the Student Placement Office. 1 unit of credit may be earned for each 75 hours paid or 60 hours unpaid work per semester to a maximum of 8 units per semester to a total of 16 units over multiple semesters. NOTE: Students enrolled in OCED 90 may not enroll in OCED 91 or any other experiential or practicum course and count the same hours during the same semester. Lab hours are the hours students spend on their job sites. Students wishing to take the maximum OCED units may continue OCED 090 over multiple semesters not to exceed 16 units total for all work experience courses. Students wishing to continue OCED 090 in subsequent semesters must contact the Work Experience Coordinator for enrollment assistance.  
(EDUC 001 + OCED 090 = C-ID EDUC 200)

# Occupational Education

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## **OCED 091 General Work Experience 1.0 to 6.0 Units**

*Corequisite: Student must be available to work 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.*

*Course Advisory: SCC minimum English and Math standards.*

*Transferable to CSU*

To qualify for General Work Experience credit, the student must be working (paid or unpaid) for a legal business. Students must work 75 hours per unit of credit for paid work and 60 hours per unit of credit for unpaid work. Work does not need to be related to major. Students will attend a weekly coordination seminar and develop job-oriented objectives. OCED 091 is an elective for all occupational education certificate and degree programs. Qualified students who are not working or volunteering may seek placement assistance from the Student Placement Office. 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. OCED 091 may be taken over multiple semesters for a maximum of 6 units. NOTE: Students enrolled in OCED 91 may not enroll in OCED 90 or any other experiential or practicum course and count the same hours during the same semester. Total work experience units may not be more than 16. Lab hours are the hours students spend on their job sites. Note: CSU will accept up to 12 units for transfer.



# Office Technology

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## Administrative Assistant

### Program Description

This program is designed to develop technical and communication skills required for management support. Computer literacy, keyboarding skills, document formatting, proofreading and grammatical skills, presentation skills, spreadsheet, and organizational skills are emphasized.

### Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained by completing the 30.5-unit major. An Associate in Science Degree can be obtained upon completion the 30.5-unit major, and general education requirements and electives. All courses for 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 Administrative Assistant Certificate of Achievement/ Associate Degree will be able to:

1. Demonstrate mastery of the alpha and numeric typewriting keyboard.
2. Demonstrate mastery in the keyboarding of correspondence, manuscripts, and compositions under timed conditions with established accuracy and formatting standards using proper techniques.
3. Develop a high degree of competency and a broad knowledge of skills as they relate to general office procedures.

<b>REQUIRED COURSES:</b> .....	<b>Units</b>	<b>Solano General Education.....</b>	<b>21</b>
(listed in recommended sequence)		<b>Electives (as needed to reach 60 units).....</b>	<b>8.5</b>
CIS 066 Microsoft Word .....	3	<b>Total Degree Units Solano GE.....</b>	<b>60</b>
CIS 001 Introduction to Computer Science .....	3		
or			
CIS 050 Microcomputer Applications .....	3		
BUS 092 Business Communication .....	3		
CIS 073 Microsoft Excel .....	3		
OT 151 Office Systems & Procedures .....	3		
OCED 090 Occupational Work Experience .....	1		
CIS 090 Introduction to PowerPoint .....	1.5		
CIS 091 Microsoft Outlook .....	1.5		
OT 054A Beginning Keyboarding A .....	1.5		
OT 054B Beginning Keyboarding B .....	1.5		
OT 055A Intermediate Keyboarding/ Word Processing A .....	1.5		
OT 055B Intermediate Keyboarding/ Word Processing B .....	1.5		
OT 162 Ten-Key .....	1		
BUS 100 Work Readiness .....	1.5		
BUS 181 Business Mathematics .....	1		
OT 056 Business Grammar and Proof Reading .....	2		
<b>Required Major Total Units:</b> .....	<b>30.5</b>		

This is a Gainful Employment Program. For additional information, please visit  
[http://www.solano.edu/gainful\\_employment/](http://www.solano.edu/gainful_employment/) and select "Office Technology Administrative Assistant."

# Office Technology

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## Medical Front Office Clerk

### Program Description

The goal of this program is to prepare students to enter the health care industry at an entry-level position in two semesters.

### Certificate of Achievement

The Certificate of Achievement can be obtained upon completion of the 26-unit major. All courses 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 Medical Front Office Clerk Certificate of Achievement will be able to:

1. Demonstrate alpha and numeric keyboarding skills at 40 wpm with established accuracy.
2. Demonstrate computer literacy and word processing skills related to formatting business documents.
3. Use medical terminology for human diseases.
4. Demonstrate the differences in medical insurance and explain the duties of a medical office assistant, HIPPA.
5. Demonstrate ability to type medical documents and facility at using medical software such as Medisoft.
6. Employ the necessary soft skills to apply and find employment and keep it.

### REQUIRED COURSES: ..... Units

(listed in recommended sequence)

#### Semester 1: ..... Units

NURS 111 Medical Terminology .....	3
OT 060 Administrative Medical Assistant.....	3
CIS 066 Microsoft Word.....	3
OT 054A Beginning Keyboarding A.....	1.5
OT 054B Beginning Keyboarding B.....	1.5
CIS 091 Microsoft Outlook.....	1.5

#### Semester 2: ..... Units

BUS 100 Work Readiness .....	1.5
OT 056 Business Grammar and Proofreading .....	2
OT 059 Medical Keyboarding and Computer Applications.....	3
OT 061 Health Insurance.....	3
OT 101 Study of Human Diseases for Medical Assistants .....	3
<b>Total Units .....</b>	<b>26</b>

This is a Gainful Employment Program. For additional information, please visit [http://www.solano.edu/gainful\\_employment/](http://www.solano.edu/gainful_employment/) and select "Medical Front Office Clerk."

# Office Technology

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## Medical Office and Coding Specialist

### Program Description

This program builds upon the Medical Front Office Clerk program. Additional course work prepares students to perform medical front office duties including Medical Coding.

### Certificate of Achievement and Associate in Science Degree

The Certificate of Achievement can be obtained upon completion of the 49-unit major. The Associate in Science Degree can be obtained upon completion of the 49-unit major, and general education requirements. 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 Medical Office and Coding Specialist Certificate of Achievement/ Associate Degree will be able to:

1. Apply both coding diagnostic and procedural for insurance billing while demonstrating understanding of medical terminology.
2. Enter patient information into medical software.
3. Keyboard accurately using the proper technique at 45+ wpm.

<b>REQUIRED COURSES</b> .....	<b>Units</b>	<b>Solano General Education</b> .....	<b>21</b>
BUS 092 Business Communication .....	3	<b>Electives (as needed to reach 60 units)</b> .....	<b>0</b>
BUS 100 Work Readiness .....	1.5	<b>Total Degree Units Solano GE</b> .....	<b>70</b>
BUS 181 Business Mathematics .....	1		
CIS 066 Microsoft Word .....	3		
CIS 073 Microsoft Excel .....	3		
CIS 091 Microsoft Outlook .....	1.5		
NURS 111 Medical Terminology .....	3		
OCED 090 Occupational Work Experience .....	1		
OT 054A Beginning Keyboarding A .....	1.5		
OT 054B Beginning Keyboarding B .....	1.5		
OT 055A Intermediate Keyboarding / Word Processing A .....	1.5		
OT 055B Intermediate Keyboarding / Word Processing B .....	1.5		
OT 056 Business Grammar and Proof Reading .....	2		
OT 059 Medical Keyboarding and Computer Applications .....	3		
OT 060 Administrative Medical Assistant .....	3		
OT 061 Health Insurance .....	3		
OT 063 Introduction to ICD-CM Coding .....	3		
OT 064 Intermediate ICD-CM Coding .....	3		
OT 066 CPT-IV Coding .....	3		
OT 101 Study of Human Diseases for Medical Assistants .....	3		
OT 151 Office Systems & Procedures .....	3		
<b>Required Major Total Units</b> .....	<b>49</b>		

This is a Gainful Employment Program. For additional information, please visit  
[http://www.solano.edu/gainful\\_employment/](http://www.solano.edu/gainful_employment/) and select "Office Technology Medical Office and Coding Specialist."

# Office Technology

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## **OT 054A Beginning Keyboarding A**

**1.5 Units**

*Transferable to CSU*

*Hours: 24-27 lecture.*

An individualized beginning keyboarding course taught on the computer. Touch typing is developed for the alphabet, punctuation, symbols, and top row number keys. Speed will be built to a minimum of 20 words per minute. Students may test out of the course if they can meet a minimum of 20 wpm with proper technique.

## **OT 054B Beginning Keyboarding B**

**1.5 Units**

*Prerequisite: OT 054A with a minimum grade of C or instructor consent.*

*Transferable to CSU*

*Hours: 24-27 lecture.*

An individualized beginning keyboarding course taught on the computer. Touch typing is developed for the alphabet, punctuation, symbols, and top row number keys. Speed will be built to a minimum of 30 words per minute. Materials studied include production of documents such as correspondence, memos, reports and tables in standard formats.

## **OT 055A**

**1.5 Units**

### **Intermediate Keyboarding/Word Processing A**

*Prerequisite: OT 054B with a minimum grade of C or instructor recommendation.*

*Course Advisory: CIS 066 with a minimum grade of C.*

*Transferable to CSU*

*Hours: 24-27 lecture.*

A keyboarding course using a computer with units of study including skill building, correspondence, reports, compositions, tables, special projects, and business forms. Speed will be built to a minimum of 35 words per minute.

## **OT 055B**

**1.5 Units**

### **Intermediate Keyboarding/Word Processing B**

*Prerequisite: OT 055A with a minimum grade of C or instructor recommendation.*

*Transferable to CSU*

*Hours: 24-27 lecture.*

An individualized keyboarding course using a computer with units of study including skill building, correspondence, reports, compositions, tables, special projects, and business forms. Speed will be built to a minimum of 40 words per minute.

## **OT 056**

### **Business Grammar and Proof Reading**

**2.0 Units**

*Prerequisite: OT 055B with a minimum grade of C; or pass the placement test.*

*Course Advisory: SCC minimum English and Math standards.*

*Transferable to CSU*

*Hours: 32-36 lecture.*

Designed to prepare students for professional work in an office with a heavy emphasis on business grammar and proof-reading. Speed will be built to a minimum of 50 words per minute.

## **OT 060 Administrative Medical Assistant**

**3.0 Units**

*Course Advisory: Eligibility for ENGL 001 and SCC minimum Math standard.*

*Transferable to CSU*

*Hours: 48-54 lecture.*

Introduction to the responsibilities of an Administrative Medical Office Assistant including: HIPPA (legal and ethical considerations), interpersonal-skills, scheduling appointments in person and by telephone, records and file management, written communications, and financial duties.

## **OT 061 Health Insurance**

**3.0 Units**

*Course Advisory: Eligibility for ENGL 001 and SCC minimum Math standard.*

*Transferable to CSU*

*Hours: 48-54 lecture.*

Introduction to health insurance claims processing and reimbursement issues. Discusses the major health care insurance programs and the impact of federal regulations. The course introduces the use of diagnosis and procedures coding. Teaches the student how to accurately complete a claim.

## **OT 100**

**1.0 Unit**

### **Skill Building on the Computer Keyboard**

*Course Advisory: Ability to touch type at 20 wpm; SCC minimum English and Math standards.*

*Hours: 16-18 lecture.*

Individualized skill building keyboarding course taught on the microcomputer. Speed and accuracy skills are enhanced on the alphabet, punctuation, and numbers. The unit of study includes identifying the specific needs of the individual and then assigning diagnostic drills, skill-development practice and pre-and post-testing. The skill building goal will be to increase typing speed or straight copy 3- to 5-minute timed writings between 5 to 10 words per minute above the starting rate with an accuracy level of not more than one error per minute.

# Office Technology

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## **OT 101**

**3.0 Units**

### **Study of Human Diseases for Medical Assistants**

*Course Advisory: SCC minimum English standard.*

*Hours: 48-54 lecture.*

Study of the pathological process, imparting basic knowledge to paramedical personnel. The student will study the basic concepts, terminology, etiology and characteristics of pathological processes. Diseases are classified according to both causative agents and the body system to which they relate.

## **OT 151 Office Systems & Procedures**

**3.0 Units**

*Corequisite: One unit of OCED 090.*

*Prerequisite: Typing rate of 45 words per minute and microcomputer word processing skills.*

*Course Advisory: SCC minimum English and Math standards.*

*Hours: 48-54 lecture.*

An advanced level course designed to complete the training of Office Technology program students in office systems and procedures. Course should be taken during the student's final semester of the program or as a refresher for experienced business students. One unit of work experience will be required in the specialty area of the student's major.

## **OT 158 Medical Office Computer Applications 3.0 Units**

*Corequisite: NURS 111 with a minimum grade of C.*

*Course Advisory: SCC minimum English standard.*

*Hours: 48-54 lecture.*

Navigates through the operations of a web-based Electronic Health Record/Total Practice Management program.

## **OT 162 Ten-Key**

**1.0 Unit**

*Course Advisory: SCC minimum English and Math standards.*

*Hours: 16-18 lecture.*

Individualized course offering the fundamentals of operating the ten-key microcomputer number keypad. The touch system of operation and continuous speed and accuracy development are emphasized throughout the course.

## **OT 163 Introduction to Diagnostic Coding 3.0 Units**

*Prerequisite: A minimum grade of C in OT 101 and NURS 111.*

*Course Advisory: A minimum grade of C in BIO 016 and BIO 016L*

*Hours: 48-54 lecture.*

Introduction to the basic principles of coding disease and procedures using the INTERNATIONAL CLASSIFICATION OF DISEASE, Clinical Modification (ICD-CM) and the ICD-CM coding handbook for the entry-level coders. Current ICD-CM books only will be utilized in this course. The accuracy of coding using the ICD-CM manual is the focus of this course. The impact of coding on reimbursement will be discussed. Formerly OT 063.

## **OT 164 Intermediate ICD PCS Coding 3.0 Units**

*Prerequisite: A minimum grade of C in OT 101 and NURS 111.*

*Hours: 48-54 lecture.*

Explores the guidelines, conventions, and process for selecting procedural codes for inpatient claims. The course will focus on Procedural Coding System (PCS) coding in compliance with The Centers for Medicare and Medicaid Services (CMS) and the National Center for Health Statistics (NCHS) guidelines for coding and reporting using the International Classification of Diseases, Procedure Coding System (ICD-PCS). ICD-PCS is a procedure classification published by the United States for classifying procedures performed in hospital inpatient health care settings. Formerly OT 064.

## **OT 166 Current Procedural Coding 3.0 Units**

*Prerequisite: NURS 111; OT 101.*

*Course Advisory: A minimum grade of C in OT 063 and 064*

*Hours: 48-54 lecture.*

Covers the principles and mechanics of coding professional services rendered using the CURRENT PROCEDURAL TERMINOLOGY (CPT-IV) coding system. Formerly OT 066.

# Philosophy

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## 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.

### Associate Degree

Not offered in this discipline

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#### PHIL 001

3.0 Units

#### Introduction to Critical Thinking and Reasoning

*Course Advisory: ENGL 001*

*General Education: Option A: Area D3; Option 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: Option A: Area C; Option B: Area 3B; Option 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.

#### PHIL 004 Introduction to Moral Philosophy 3.0 Units

*Course Advisory: ENGL 001*

*General Education: Option A: Area C; Option B: Area 3B; Option 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.*

*Course Advisory: SCC minimum Math standard.*

*General Education: Option A: Area C; Option B: Area 1B; Option 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: Option B: Area 3B, Area 4H; Option C: Area D8*

*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.

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# Philosophy

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## **PHIL 400 Bioethics**

**3.0 Units**

*Prerequisite: Admission into the Biomanufacturing Baccalaureate degree program; Permission of faculty required; 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

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## *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, 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 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.

<b>REQUIRED COURSES</b> .....	<b>Units</b>
PHOT 029 Introduction to Photography .....	3
PHOT 071 Digital Imaging 1 .....	3
PHOT 151 Professional Photography: Introduction .....	3
PHOT 156 Portfolio Development .....	3
6 units from List A.....	6
6 units from List B .....	6
<b>Required Major Total Units</b> .....	<b>24</b>

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

<b>List B</b> (select 6 units) .....	<b>Units</b>
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
<b>Solano General Education</b> .....	<b>21</b>
<b>Electives (as needed to reach 60 units)</b> .....	<b>15</b>
<b>Total Degree Units Solano GE</b> .....	<b>60</b>

This is a Gainful Employment Program. For additional information, please visit [http://www.solano.edu/gainful\\_employment/](http://www.solano.edu/gainful_employment/) and select "Professional Photography."



# Photography

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## **PHOT 029 Introduction to Photography 3.0 Units**

*Course Advisory: SCC minimum English and Math standards.  
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; Eligibility for ENGL 001; SCC minimum Math standard.*

*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.

## **PHOT 031 Intermediate Photography 3.0 Units**

*Prerequisite: PHOT 029 with a minimum grade of C.*

*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 035 The Art of Photography 3.0 Units**

*Course Advisory: ENGL 001; ART 011.*

*General Education: Option A: Area C; Option B: Area 3A; Option 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; SCC minimum English and Math standards.*

*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; SCC minimum MATH standard.*

*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 051 Photography Laboratory 0.5 to 1.0 Units**

*Corequisite: Enrollment in any SCC Photography course excluding PHOT 035.*

*Course Advisory: SCC minimum English and Math standards.  
Transferable to CSU  
Hours: 24-54 lab.*

Augments darkroom, digital, and/or studio courses. The course provides individual assistance with projects requiring special darkroom, lightroom, and/or studio techniques as well as reinforcement of the proper care and maintenance practices of a darkroom, digital, and studio facility. Students may take this course up to the maximum number of units over multiple semesters. This is an Open Entry/Open Exit, Pass/No Pass only course.

# Photography

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## PHOT 056

### Photojournalism & Documentary Photography

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

*Course Advisory:* Eligibility for ENGL 001.

*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)

3.0 Units

## PHOT 071 Digital Imaging 1

*Prerequisite:* PHOT 070.

*Course Advisory:* Eligibility for ENGL 001 and SCC minimum Math standard.

*Transferable to CSU*

*Hours:* 32-36 lecture, 48-54 lab.

Expands on the basic concepts and skills of digital imaging through usage of Lightroom and PhotoShop. Scanning and image editing included. SLR digital camera is required.

3.0 Units

## PHOT 130L Film Photography Practicum

*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.

1.0 Unit

## PHOT 151

### 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.

3.0 Units

## PHOT 152

### Professional Photography: Portraiture

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

*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.

3.0 Units

## PHOT 153

### Professional Photography: Product and Advertising

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

*Course Advisory:* Eligibility for ENGL 001

*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.

3.0 Units

## PHOT 154

### Professional Photography: Interior and Exterior

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

*Course Advisory:* Eligibility for ENGL 001

*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.

3.0 Units

## PHOT 156 Portfolio Development

*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.

3.0 Units

## PHOT 161 Workshop: Camera Intensive

*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.

1.0 Unit

# Photography

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## **PHOT 162**

### **Workshop: Portraiture and Studio Lighting**

*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.

**1.0 Unit**

## **PHOT 163**

### **Landscape and Nature Photography**

*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.

**1.0 Unit**

## **PHOT 171L Digital Imaging Practicum**

*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.

**1.0 Unit**

## **PHOT 173L DSLR Videography Practicum**

*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.

**1.0 Unit**

# Physical Science

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## Program Description

Physical science is the systematic study of the inorganic world, as distinct from the biological sciences, which is the study of the organic world. Physical science is generally thought of as consisting of the areas of astronomy, physics, chemistry, and the Earth sciences.

## Associate Degree

Not offered in this discipline.

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### PHSC 012

4.0 Units

#### Introduction to Principles of Physical Science

*Course Advisory: Eligibility for ENGL 001; SCC minimum Math standard.*

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

*Option C: Area B1, Area 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. Course Advisory: SCC minimum English and Math standards.*

*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.*

*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; SCC minimum English and Math standards.*

*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; SCC minimum English and Math standards.*

*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](http://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

- MATH 020** 5 units  
Analytic Geometry and Calculus I (IGETC 2)
- ENGL 001** 4 units  
English Composition (IGETC 1A)
- LR 010** 1 units  
Introduction to Library Research and Information Competency
- IGETC 4** 3 units
- IGETC 3A** 3 units

## 2 SECOND SEMESTER

Total Recommended Units: 17

- MATH 021** 5 units  
Analytic Geometry and Calculus II
- PHYS 006 (L)** 5 units  
Physics for Science and Engineering (IGETC 5A)
- 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: 15

- MATH 022** 4 units  
Analytic Geometry and Calculus III
- PHYS 007** 5 units  
Physics for Science and Engineering
- IGETC 1C** 3 units  
Suggested: COMM 001
- IGETC 4** 3 units  
Suggested: COMM 012 or COUN 015 or PSYC 007

## 4 FOURTH SEMESTER

Total Recommended Units: 14

- PHYS 008** 5 units  
Physics for Science and Engineering
- IGETC 5B** 3 units  
Without Lab
- IGETC 3A or 3B** 3 units
- IGETC 4/Am Inst Grp 1** 3 units  
Suggested: PLSC 001 or 005

Required Courses/Courses in Discipline  GE Courses/Categories



**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](http://www.assist.org).

## LET US HELP YOU!

How to Apply: [solano.edu/ar/apply.php](http://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](http://solano.edu/counseling)
- **Contact Our Career Center to Learn Your Career Options!**  
 Call 707-864-7124, or email at [CareerCenter@solano.edu](mailto:CareerCenter@solano.edu)  
 Visit online at [solano.edu/career](http://solano.edu/career)
- **You Can Afford College! Learn more about Financial Aid!**  
 Call 707-864-7103, or email at [FinancialAid@solano.edu](mailto:FinancialAid@solano.edu)  
 Visit online at [solano.edu/financial\\_aid](http://solano.edu/financial_aid)
- **College is Accessible!** Contact our Disability Services Program (DSP) at 707-864-7136.

# Physics

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## *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.

<b>REQUIRED COURSES</b> .....	<b>Units</b>
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

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

\* 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

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 023 Differential Equations .....	4
One course from Biological Science .....	3-5
One course from Physical Science .....	3-5
<b>Required Major Total Units .....</b>	<b>35-39</b>

### Biological Science (select one course) ..... Units

BIO 002 Principles of Cell and Molecular Biology .....	5
BIO 003 Evolution, Ecology & Biodiversity .....	5
BIO 005 Human Physiology .....	5
BIO 012 Environmental Science .....	3
BIO 014 Principles of Microbiology .....	4
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

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
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 the Principles of Physical Science .....	4

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

Transferable Electives (as needed to reach 60 units) .... 0  
Total Degree Units CSU GE or IGETC ..... 62-69

### Solano General Education ..... 21

Electives (as needed to reach 60 units) ..... 0-4  
Total Degree Units Solano GE ..... 60

*\*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

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## **PHYS 002 General Physics (Non-Calculus) 5.0 Units**

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

*Course Advisory:* Eligibility for English 001.

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

Option C: Area B1, Area B3

*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, Area 5C;

Option C: Area B1, Area 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; Eligibility for ENGL 001.

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

Option C: Area B1, Area 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, Area 5C;

Option C: Area B1, Area 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, Area 5C;

Option C: Area B1, Area 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; SCC minimum

English standard.

*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](http://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](http://www.assist.org).

## LET US HELP YOU!

How to Apply: [solano.edu/ar/apply.php](http://solano.edu/ar/apply.php)

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Vacaville Center: (707) 863-7836  
Vallejo Center: (707) 642-8188  
Travis AFB: (707) 863-7878  
Visit online at [solano.edu/counseling](http://solano.edu/counseling)
- **Contact Our Career Center to Learn Your Career Options!**  
Call 707-864-7124, or email at [CareerCenter@solano.edu](mailto:CareerCenter@solano.edu)  
Visit online at [solano.edu/career](http://solano.edu/career)
- **You Can Afford College! Learn more about Financial Aid!**  
Call 707-864-7103, or email at [FinancialAid@solano.edu](mailto:FinancialAid@solano.edu)  
Visit online at [solano.edu/financial\\_aid](http://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

# Political Science

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## 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

<b>REQUIRED COURSES</b> .....	<b>Units</b>	<b>List B: (select 6 units).....</b>	<b>Units</b>
PLSC 001 Introduction to American Government and Politics .....	3	Any List A course not used	
Three courses from List A .....	9-10	PLSC 005 Constitutional Rights in a Multicultural Society .....	3
6 units from List B .....	6	PLSC 016 The American Legal System .....	3
<b>List A: (select three courses).....</b>	<b>Units</b>	PLSC 019 Human Rights and Sexual Orientation.....	3
PLSC 002 Introduction to Comparative Government .....	3	PLSC 049 Political Science Honors .....	1-3
PLSC 006 Basic Concepts in Political Thought .....	3	PLSC 050 Student Leadership .....	1
MATH 011 Elementary Statistics .....	4	<b>Required Major Total Units .....</b>	<b>18-19</b>
PLSC 004 Introduction to Political Science.....	3	<b>CSU General Education or IGETC Pattern Units ...</b>	<b>37-39</b>
PLSC 003 Introduction to International Politics .....	3	<b>CSU Transferable Electives (as needed to reach 60</b>	
or		<b>transferable units)* .....</b>	<b>8-17</b>
IR 001 Global Interdependence.....	3	<b>Total Degree Units .....</b>	<b>60</b>

\* 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

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## PLSC 001

3.0 Units

### Introduction to American Government and Politics

*Course Advisory: ENGL 001 with a minimum grade of C; SCC minimum Math standard.*

*General Education: Option A: Area B1; Option B: Area 4H, CSU Graduation Requirement; Option C: Area D8*

*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; SCC minimum Math standard.*

*General Education: Option A: Area B2; Option B: Area 4H; Option C: Area D8*

*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; SCC minimum Math standard.*

*General Education: Option A: Area B2; Option B: Area 4H; Option C: Area D8*

*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; SCC minimum Math standard.*

*General Education: Option A: Area B1; Option B: Area 4H; Option C: Area D8*

*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; SCC minimum Math standard.*

*General Education: Option A: Area B1, Area E; Option B: Area 4C, Area 4H, CSU Graduation Requirement; Option C: Area D3, Area D8, SCC Graduation Requirement*

*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: Option A: Area B2; Option B: Area 3B, Area 4H; Option C: Area D8*

*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 016 The American Legal System 3.0 Units

*Course Advisory: PLSC 001; ENGL 001; SCC minimum Math standard.*

*General Education: Option A: Area B2; Option B: Area 4H; Option C: Area D8*

*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.

# Political Science

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## **PLSC 019**

### **Human Rights and Sexual Orientation**

*Course Advisory: ENGL 001.*

*General Education: Option A: Area B2; Option B: Area 4D, Area 4H;*

*Option C: Area D4, Area D8*

*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.

**3.0 Units**

## **PLSC 050 Student Leadership**

**1.0 Unit**

*Course Advisory: SCC minimum English and Math standards.*

*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.

## **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.

# 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](http://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

## 1 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 006

## 2 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

## 3 THIRD SEMESTER

Total Recommended Units: 16

- PSYC 004** 3 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

## 4 FOURTH SEMESTER

Total Recommended Units: 16

- BIO 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)

Required Courses/Courses in Discipline  GE Courses/Categories

## GET STARTED NOW!

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Travis AFB: (707) 863-7878  
Visit online at [solano.edu/counseling](http://solano.edu/counseling)
- **Contact Our Career Center to Learn Your Career Options!**  
Call 707-864-7124, or email at [CareerCenter@solano.edu](mailto:CareerCenter@solano.edu)  
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Call 707-864-7103, or email at [FinancialAid@solano.edu](mailto:FinancialAid@solano.edu)  
Visit online at [solano.edu/financial\\_aid](http://solano.edu/financial_aid)
- **College is Accessible!** Contact our Disability Services Program (DSP) at 707-864-7136.

# Psychology

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

### Program Description

The psychology program provides academic instruction in basic psychological concepts, theories, terminology, and research methods, and promotes life skills, personal growth, and interpersonal effectiveness.

### 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

MATH 011 Elementary Statistics .....	4
PSYC 001 Introduction to Psychology .....	3
PSYC 002 Biological Psychology .....	3
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 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
<b>Total Degree Units .....</b>	<b>60</b>

\* 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

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## Psychology

### Program Description

The psychology program provides a broad overview of psychology as a science, in particular regard to major theories, methods, and applications. The program emphasizes critical thinking, skeptical inquiry and the scientific approach to understanding behavior and mental processes. In addition, personal, social, and organizational issues are explored using psychological principles.

### 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.

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

<b>List A:</b> (select three courses) .....	<b>Units</b>
PSYC 005 Abnormal Psychology .....	3
PSYC 006 Developmental Psychology .....	3
PSYC 007 Cross-Cultural Psychology .....	3
PSYC 012 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 051 Introduction to Human Services .....	3

<b>CSU General Education or IGETC Pattern Units</b> ...	<b>37-39</b>
<b>CSU Transferable Electives (as needed to reach 60 transferable units)*</b> .....	<b>8-10</b>
<b>Total Degree Units</b> .....	<b>60</b>
<b>Solano General Education</b> .....	<b>21</b>
<b>Electives (as needed to reach 60 units)</b> .....	<b>17</b>
<b>Total Degree Units Solano GE</b> .....	<b>60</b>

\* 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

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## **PSYC 001 Introduction to Psychology 3.0 Units**

*Course Advisory: Eligibility for ENGL 001; SCC minimum Math standard.*

*General Education: Option A: Area B2; Option B: Area 4I; Option C:*

*Area D9*

*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: Option A: Area B2; Option B: Area 4I; Option C:*

*Area D9*

*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 Research Methods in Behavioral Science 3.0 Units**

*Prerequisite: A minimum grade of C in both PSYC 001 and MATH 011.*

*General Education: Option A: Area B2; Option B: Area 4I; Option C:*

*Area D9*

*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: Option A: Area B2; Option B: Area 4I; Option C:*

*Area D9*

*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.

## **PSYC 006 Developmental Psychology 3.0 Units**

*Course Advisory: PSYC 001; Eligibility for ENGL 001; SCC minimum Math standard.*

*General Education: Option B: Area 4I; Option C: Area D9, Area 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.

## **PSYC 007 Cross-Cultural Psychology 3.0 Units**

*Course Advisory: PSYC 001 with a minimum grade of C; Eligibility for ENGL 001.*

*General Education: Option A: Area E; Option B: Area 4C, Area 4I;*

*Option C: Area D3, Area D7, Area D9, SCC Graduation Requirement*

*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.



# Psychology

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## **PSYC 012 Gender**

**3.0 Units**

*Course Advisory: PSYC 001, ENGL 001, LR 010, and SCC minimum Math standard.*

*General Education: Option A: Area B2; Option B: Area 4I; Option C: Area D4*

*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. Open to all students. (C-ID SOCI 140)

## **PSYC 020 Personal and Social Behavior**

**3.0 Units**

*Course Advisory: SCC minimum English and Math standards.*

*General Education: Option A: Area B2; Option B: Area 4I; Option C: Area 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; Eligibility for ENGL 001; and SCC minimum Math standard.*

*General Education: Option A: Area B2; Option B: Area 4I, Area 4J; Option C: Area D7*

*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**

*Course Advisory: SCC minimum English standard.*

*General Education: Option B: Area 4I; Option C: Area D9, Area 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**

*Course Advisory: Eligibility for ENGL 001; SCC minimum Math standard.*

*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.

## **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

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## 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, general education requirements, 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
<b>Required Major Total Units .....</b>	<b>24-25</b>

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

### 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/](http://www.solano.edu/gainful_employment/) and select "Real Estate."

# Real Estate

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## **RE 164 Real Estate Principles**

**3.0 Units**

*Course Advisory: SCC minimum English and Math standards.  
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**

*Course Advisory: SCC minimum English and Math standards.  
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**

*Course Advisory: SCC minimum English and Math standards.  
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 continuing education as required by the Department of Real Estate.

## **RE 173 Legal Aspect of Real Estate**

**3.0 Units**

*Course Advisory: SCC minimum English and Math standards.  
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**

*Course Advisory: SCC minimum English and Math standards.  
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**

*Course Advisory: SCC minimum English and Math standards.  
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**

*Course Advisory: SCC minimum English and Math standards.  
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

### 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**

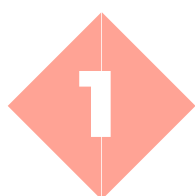
*\*9 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.*

# 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](http://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.



## 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:** **3 units**  
**Arts and Humanities**  
Suggested: ART 012 or CINA 011 or ENGL 036 or MUSC 013 (IGETC 3A)
- ENGL 001** **4 units**  
English Composition (IGETC 1A)
- LR 010** **1 units**  
Introduction to Library Research and Information Competency



## 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



## SECOND SEMESTER

Total Recommended Units: 16

- SJS 002** **3 units**  
Intro to Race and Ethnicity
- SJS Area 1:** **3 units**  
**History or Government**  
Suggested: HIST 028 or 029 or 037 (IGETC 4/Am Inst Grp 2)
- IGETC 1B** **4 units**  
Suggested: ENGL 002 or 004
- IGETC 1B** **3 units**  
Suggested: Comm 001 or 002 or 006
- 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



**SOLANO**  
COMMUNITY COLLEGE

## Social Justice Studies AA-T Degree

GE Pattern: IGETC  
Program Total Units: 62

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

## 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](http://www.assist.org).

## LET US HELP YOU!

How to Apply: [solano.edu/ar/apply.php](http://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](http://solano.edu/counseling)
- **Contact Our Career Center to Learn Your Career Options!**  
Call 707-864-7124, or email at [CareerCenter@solano.edu](mailto:CareerCenter@solano.edu)  
Visit online at [solano.edu/career](http://solano.edu/career)
- **You Can Afford College! Learn more about Financial Aid!**  
Call 707-864-7103, or email at [FinancialAid@solano.edu](mailto:FinancialAid@solano.edu)  
Visit online at [solano.edu/financial\\_aid](http://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 COURSES	Units
SJS 001 Introduction to Social Justice Studies	3
SJS 002 Introduction to Race and Ethnicity	3
PSYC 012 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
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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

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## 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

<b>Required Major Total Units:</b> .....	<b>18-22</b>
<b>CSU General Education or IGETC Pattern units</b> ....	<b>37-39</b>
<b>Transferable Electives (as needed to reach 60 units)</b> .....	<b>11-17</b>
<b>Total Degree Units CSU GE or IGETC</b> .....	<b>60</b>
<b>Solano General Education</b> .....	<b>21</b>
<b>Electives (as needed to reach 60 units)</b> .....	<b>17-21</b>
<b>Total Degree Units Solano GE</b> .....	<b>60</b>

\* 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

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## Social Justice Studies

### **SJS 001 Introduction to Social Justice Studies 3.0 Units**

*Course Advisory: SCC minimum English standard.*

*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**

*Course Advisory: SCC minimum English standard.*

*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**

#### **Peace, Non Violence and Conflict Resolution**

*Course Advisory: Eligibility for ENGL 001.*

*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)

**3.0 Units**



# 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](http://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.



## 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 3A** 3 units

## 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 002 or 006

## 3 THIRD SEMESTER

Total Recommended Units: 16-17

- 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

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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](http://www.assist.org).

## LET US HELP YOU!

How to Apply: [solano.edu/ar/apply.php](http://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](http://solano.edu/counseling)
- **Contact Our Career Center to Learn Your Career Options!**  
Call 707-864-7124, or email at [CareerCenter@solano.edu](mailto:CareerCenter@solano.edu)  
Visit online at [solano.edu/career](http://solano.edu/career)
- **You Can Afford College! Learn more about Financial Aid!**  
Call 707-864-7103, or email at [FinancialAid@solano.edu](mailto:FinancialAid@solano.edu)  
Visit online at [solano.edu/financial\\_aid](http://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

# Sociology

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## *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.

<b>REQUIRED COURSES</b> .....	<b>Units</b>
SOC 001 Introduction to Sociology .....	3
Two courses from List A .....	6-7
Two courses List B .....	6
3 units from List C.....	3

<b>List A:</b> (select two courses) .....	<b>Units</b>
SOC 002 Social Issues and Problems .....	3
PSYC 004 Research Methods in Behavioral Science .....	3
MATH 011 Elementary Statistics .....	4

<b>List B:</b> (select two courses) .....	<b>Units</b>
SOC 030 Introduction to Social Psychology .....	3
SOC 040 Sociology of the Family .....	3
SOC 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict .....	3

<b>List C:</b> (select 3 units) .....	<b>Units</b>
SOC 045 Sociology of Religion .....	3
SOC 075 Introduction to Sociology of Sport .....	3
SOC 049 Sociology Honors .....	1-3
SOCS 030 Peace, Non Violence and Conflict Resolution.	3

<b>Required Major Total Units</b> .....	<b>18-19</b>
<b>CSU General Education or IGETC Pattern Units</b> ...	<b>37-39</b>
<b>CSU Transferable Electives (as needed to reach 60 transferable units)*</b> .....	<b>11-14</b>
<b>Total Degree Units</b> .....	<b>60</b>

*\* 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

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## 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.

<b>REQUIRED COURSES</b> .....	<b>Units</b>
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
<b>Total Units</b> .....	<b>18-19</b>

<b>List A:</b> (select two courses).....	<b>Units</b>
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

<b>List B:</b> (select one course).....	<b>Units</b>
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

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

<b>Solano General Education</b> .....	<b>21</b>
<b>Electives (as needed to reach 60 units)</b> .....	<b>20-21</b>
<b>Total Degree Units Solano GE</b> .....	<b>60</b>

*\*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

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## **SOC 001 Introduction to Sociology**

**3.0 Units**

*Course Advisory: Eligibility for ENGL 001.*

*General Education: Option A: Area B2; Option B: Area 4J; Option C: Area D0*

*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; Eligibility for ENGL 001.*

*General Education: Option A: Area B1; Option B: Area 4J; Option C: Area D0*

*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; Eligibility for ENGL 001.*

*General Education: Option A: Area B2; Option B: Area 4J; Option C: Area D0, Area D3*

*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; Eligibility for ENGL 001.*

*General Education: Option B: Area 4J; Option C: Area D0*

*Transferable to UC/CSU*

*Hours: 48-54 lecture.*

A comparative cultural view of the family, the history of the family and its present role in our society with special emphasis on kinship relations, sex roles, ethnic variations of the family and alternative family styles.

## **SOC 045 Sociology of Religion**

**3.0 Units**

*Course Advisory: Eligibility for ENGL 001.*

*General Education: Option B: Area 4J; Option C: Area D0*

*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; SCC minimum English and Math standards.*

*General Education: Option C: Area D0, Area D7*

*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.

# Theatre Arts for Transfer (AA-T)

## CAREER PATHS:

Actor, Dancer, and/or Singer	Technical Theater Crew Member
Art or Drama Therapist	Theater Teacher
Costumer Designer	Theater Director
Stage Manager	TV/Film Production Assistant
Set and Exhibit Designer	

Additional Career Paths and related data, including state-by-state wage info and growth in the field, can be found at [www.onetonline.org](http://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 012

## 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](http://www.assist.org).

## LET US HELP YOU!

How to Apply: [solano.edu/ar/apply.php](http://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](http://solano.edu/counseling)
- **Contact Our Career Center to Learn Your Career Options!**  
Call 707-864-7124, or email at [CareerCenter@solano.edu](mailto:CareerCenter@solano.edu)  
Visit online at [solano.edu/career](http://solano.edu/career)
- **You Can Afford College! Learn more about Financial Aid!**  
Call 707-864-7103, or email at [FinancialAid@solano.edu](mailto:FinancialAid@solano.edu)  
Visit online at [solano.edu/financial\\_aid](http://solano.edu/financial_aid)
- **College is Accessible!** Contact our Disability Services Program (DSP) at 707-864-7136.

# 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.

<b>REQUIRED COURSES</b> .....	<b>Units</b>
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
<b>Required Major Total Units</b> .....	<b>18-19</b>

### Performance/Production

(select 3-4 Units).....	<b>Units</b>
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

<b>List A (select 3 courses)</b> .....	<b>Units</b>
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
<b>CSU General Education or IGETC Pattern Units</b> .....	<b>37-39</b>
<b>CSU Transferable Electives (as needed to reach 60 transferable units)*</b> .....	<b>4-9</b>
<b>Total Degree Units</b> .....	<b>60</b>

\* 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

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## 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 Units .....30-31**

### 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 IGETC .....61-64**

### 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

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## *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 33.5 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.

<b>REQUIRED CORE:</b> .....	<b>Units</b>
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
<b>Total Units</b> .....	<b>33-33.5</b>

<b>List A:</b> (select 9-9.5 units).....	<b>Units</b>
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/](http://www.solano.edu/gainful_employment/) and select "Theatre Arts Technical."



# Theatre Arts

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## **THEA 001 Acting 1**

**3.0 Units**

*Course Advisory: Eligibility for ENGL 001; SCC minimum Math standard.  
General Education: Option 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)

## **THEA 002 Acting 2**

**3.0 Units**

*Prerequisite: THEA 001 with a minimum grade of C.  
General Education: Option 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)

## **THEA 003 Stagecraft**

**3.0 Units**

*Course Advisory: Eligibility for ENGL 001; SCC minimum Math standard.  
General Education: Option B: Area 3A, Area 3B  
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)

## **THEA 005 Applied Drama**

**2.0 Units**

*Prerequisite: Audition for actors; A minimum grade of C in both THEA 001 and THEA 003.  
General Education: Option C: Area C1  
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**

*Course Advisory: Concurrent enrollment in or successful completion of ENGL 001, and SCC minimum Math standard.  
General Education: Option A: Area C; Option B: Area 3A; Option 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**

*Course Advisory: Eligibility for ENGL 001.  
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**

*Course Advisory: ENGL 001 with a minimum grade of C (may enroll concurrently)  
General Education: Option B: Area 3A; Option 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)

# Theatre Arts

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## **THEA 010 Theatre History 1**

**3.0 Units**

*Course Advisory: Successful completion of ENGL 001 and SCC minimum Math standard.*

*General Education: Option A: Area C; Option B: Area 3A; Option 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**

*Course Advisory: Successful completion of ENGL 001 and SCC minimum Math standard.*

*General Education: Option A: Area C; Option B: Area 3A; Option 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**

*Course Advisory: Eligibility for ENGL 001 and SCC minimum Math standard.*

*General Education: Option A: Area C, Area E; Option B: Area 3A; Option C: Area C1, SCC Graduation Requirement*

*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**

*Course Advisory: SCC minimum English and Math standard.*

*General Education: Option A: Area C*

*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)

## **THEA 021 Introduction to Theatre Design**

**3.0 Units**

*Prerequisite: THEA 003 with a minimum grade of C.*

*Course Advisory: Successful completion of ENGL 001*

*General Education: Option B: Area 3A*

*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**

*Course Advisory: SCC minimum English standard.*

*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**

*Course Advisory: SCC minimum English standard.*

*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)

# Theatre Arts

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## **THEA 024B**

**4.0 Units**

### **Rehearsal and Performance in Production - Drama**

*Course Advisory: SCC minimum English standard.*

*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**

*Course Advisory: SCC minimum English standard.*

*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**

*Course Advisory: SCC minimum English standard.*

*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**

*Course Advisory: SCC minimum English standard.*

*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.

## **THEA 027A**

**3.0 Units**

### **Technical Theatre in Production Show Run Crew - Comedy**

*Course Advisory: SCC minimum English standard.*

*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.

## **THEA 027B**

**3.0 Units**

### **Technical Theatre in Production Show Run Crew - Drama**

*Course Advisory: SCC minimum English standard.*

*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.

# Theatre Arts

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## **THEA 027C**

**3.0 Units**

### **Technical Theatre in Production Show Run Crew - Classical**

*Course Advisory: SCC minimum English standard.*

*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.

## **THEA 027D**

**3.0 Units**

### **Technical Theatre in Production Show Run Crew - Musical**

*Course Advisory: SCC minimum English standard.*

*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.

## **THEA 032A Fundamentals of Costume Design 3.0 Units**

*Course Advisory: Eligibility for ENGL 001.*

*General Education: Option B: Area 3A*

*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**

*Course Advisory: Eligibility for ENGL 001.*

*General Education: Option B: Area 3A*

*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**

*Course Advisory: Eligibility for ENGL 001.*

*General Education: Option B: Area 3A*

*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)

## **THEA 032D**

**3.0 Units**

### **Fundamentals of Costume Design - Musical**

*Course Advisory: ENGL 001 with a minimum grade of C (may enroll concurrently)*

*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)

# Theatre Arts

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## 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

*Course Advisory: Eligibility for ENGL 001.*

*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

3.0 Units

*Course Advisory: SCC minimum English standard.*

*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.

## THEA 047A

### Technical Theatre in Production - Comedy

*Course Advisory: SCC minimum English standard.*

*General Education: Option A: Area C*

*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

*Course Advisory: SCC minimum English standard.*

*General Education: Option A: Area C*

*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

*Course Advisory: SCC minimum English standard.*

*General Education: Option A: Area C*

*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

## THEA 047D

### Technical Theatre in Production - Musical

*Course Advisory: SCC minimum English standard.*

*General Education: Option A: Area C*

*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

# Theatre Arts

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**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

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## *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) campus. Completion of the Intersegmental General Education Transfer Curriculum will permit a student to transfer from a Solano Community College to a UC 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 37-units from the Intersegmental General Education Transfer Curriculum (IGETC) Pattern, CSU Graduation Requirement, and SCC Graduation Requirement. 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 COURSES ..... Units (minimum)**

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

Area 1 .....	9
Area 2 .....	3
Area 3 .....	9
Area 4 .....	9
Area 5 .....	7
<b>Total Units .....</b>	<b>37</b>

UC Graduation Requirement Area 6  
(courses may be double counted in Area 3b or 4) ..... 3

CSU Graduation Requirement  
(HIST courses may be double counted in Area 3b or 4).. 6

SCC Graduation Requirement  
(course may be double counted in one other area) ..... 3

<b>IGETC General Education Pattern .....</b>	<b>37</b>
<b>UC Graduation Requirement .....</b>	<b>3</b>
<b>CSU Graduation Requirement .....</b>	<b>6</b>
<b>SCC Graduation Requirement .....</b>	<b>3</b>
<b>Required Major Total Units .....</b>	<b>39</b>

*\*12 units may be double counted toward different areas within the IGETC General Education Pattern. Consult with a counselor for more information on completing this certificate.*

# Transfer Studies

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## *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, CSU Graduation Requirement, and SCC Graduation Requirement. 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 COURSES ..... Units (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.....	9
<b>Total Units .....</b>	<b>39</b>

CSU Graduation Requirement  
(HIST courses may be double counted in Area C2 or D). 6

SCC Graduation Requirement  
(course may be double counted in one other area)..... 3

<b>CSU General Education Pattern.....</b>	<b>39</b>
<b>CSU Graduation Requirement.....</b>	<b>6</b>
<b>SCC Graduation Requirement.....</b>	<b>3</b>
<b>Required Major Total Units .....</b>	<b>39</b>

*\*9 units may be double counted toward different areas within the CSU General Education Pattern. Consult with a counselor for more information on completing this certificate.*



# Tutoring

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## 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

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### **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, 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 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/](http://www.solano.edu/gainful_employment/) and select "Water & Wastewater Technology."

# Water and Wastewater Technology

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## **WATR 100 Wastewater Treatment I 4.0 Units**

*Course Advisory: SCC minimum English and Math standards.  
Hours: 64-72 lecture.*

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 101 4.0 Units**

### **Basic Chemistry for Water and Wastewater**

*Course Advisory: SCC minimum English and Math standards.  
Hours: 64-72 lecture.*

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 103 3.0 Units**

### **Biological Principles of Water and Wastewater**

*Course Advisory: SCC minimum English and Math standards.  
Hours: 48-54 lecture.*

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 104 Water Treatment I 3.0 Units**

*Course Advisory SCC minimum English and Math standards.  
Hours: 48-54 lecture.*

Examine the elementary engineering aspects of the design, operation, process control, and facilities of a plant designed to treat and purify drinking water.

## **WATR 105 Wastewater Treatment II 3.0 Units**

*Prerequisite: WATR 100.  
Hours: 48-54 lecture.*

Study of the elementary engineering aspects of design, operation process control, and maintenance of wastewater treatment plants and facilities.

## **WATR 106 Instrumentation and Controls 3.0 Units**

*Course Advisory: SCC minimum English and Math standards.  
Hours: 48-54 lecture.*

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 107 4.0 Units**

### **Mathematics of Water and Wastewater Treatment**

*Course Advisory: SCC minimum English and Math standards.  
Hours: 64-72 lecture.*

A study of calculations - hydraulics, chemicals, solids - used in the design, operation, process control, and maintenance of treatment plants and facilities.

## **WATR 108 Water Treatment II 3.0 Units**

*Prerequisite: WATR 104 with a minimum grade of C.  
Hours: 48-54 lecture.*

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 112 Wastewater Treatment III 2.0 Units**

*Prerequisite: WATR 105.  
Hours: 32-36 lecture.*

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 120 2.0 Units**

### **Distribution Systems Maintenance**

*Course Advisory: SCC minimum English and Math standards.  
Hours: 32-36 lecture.*

Study of the operation and maintenance of water distribution systems covering the design, construction and the functioning of these systems.

# Water and Wastewater Technology

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## **WATR 121 Collection Systems Maintenance 2.0 Units**

*Course Advisory: SCC minimum English and Math standards.  
Hours: 32-36 lecture.*

Study of the operation and maintenance of wastewater collection systems covering the design, construction and functioning of these systems.

## **WATR 125 Water Conservation 2.5 Units**

*Course Advisory: SCC minimum English and Math standards.  
Hours: 40-45 lecture.*

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 126 Pumps and Motors 3.0 Units**

*Course Advisory: SCC minimum Math standard.  
Hours: 48-54 lecture.*

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.

# Welding

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## 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, 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. 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.

<b>CERTIFICATE COURSES</b> .....	<b>Units</b>
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
<b>Total Units</b> .....	<b>15</b>

### ADDITIONAL COURSES FOR

<b>ASSOCIATE DEGREE</b> .....	<b>Units</b>
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
<b>Total Units</b> .....	<b>27</b>

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

This is a Gainful Employment Program. For additional information, please visit [http://www.solano.edu/gainful\\_employment/](http://www.solano.edu/gainful_employment/) and select "Welding Technician."

# Welding

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## **WELD 100 Introduction to Welding**

**3.0 Units**

*Course Advisory: SCC minimum English standard.  
Hours: 32-36 lecture, 48-54 lab.*

An introduction to welding processes, including shielded metal arc, gas metal arc, flux-cored gas shield and self shield, gas tungsten arc, oxyacetylene cutting and welding on joint designs, and positions used in industry. Safety in arc welding, oxyacetylene, and plasma cutting is also covered. Field trips may be required.

## **WELD 101 Welding Technology**

**10.0 Units**

*Prerequisite: WELD 100 or comparable industry experience or training.  
Course Advisory: SCC minimum English standard.  
Hours: 80-90 lecture, 240-270 lab.*

Presents the theory, procedures, and manipulative skills required to weld mild steel plate to code certification levels with the shielded metal arc and flux cored arc welding processes. A basic understanding of metallurgy, metals identification, layout, and welding of other metals is also presented.

## **WELD 102 Welding Technology**

**10.0 Units**

*Prerequisite: WELD 101 or comparable industry experience or training.  
Course Advisory: SCC minimum English and Math standards.  
Hours: 80-90 lecture, 240-270 lab.*

Presents the theory, procedures, and manipulative skills required to weld metals of various thicknesses with the gas metal arc welding process. Introduces the student to the theory, procedures, and manipulative skills required to weld mild steel pipe to industrial standards.

## **WELD 103 Welding Technology**

**10.0 Units**

*Prerequisite: WELD 102 or comparable industry experience or training.  
Course Advisory: SCC minimum English standard.  
Hours: 80-90 lecture, 240-270 lab.*

Presents the theory, procedures and manipulative skills required to weld metals of various thicknesses with the gas tungsten arc process, as well as the theory, procedures and manipulative skills required to weld and fit pipe in all positions.

## **WELD 112 Carpentry Apprentice Welding**

**1.0 Unit**

*Course Advisory: SCC minimum English and Math standards.  
Hours: 12-13.5 lecture, 24-27 lab.*

Provides introductory safety instruction and manipulative practice in the setup and use of oxy-acetylene and arc welding and cutting equipment. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned.

## **WELD 120 Plate Welder (Basic)**

**3.0 Units**

*Course Advisory: Successful completion of IT 110 or prior welding experience; SCC minimum English standard.  
Hours: 32-36 lecture, 48-54 lab.*

Presents the theory, procedure and manipulative skills required to meet certification standards on one-inch plate using low hydrogen electrodes in the vertical position. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques earned.

## **WELD 121 Plate Code Welder (Advanced)**

**3.0 Units**

*Course Advisory: Successful completion of IT 110 or prior welding experience; SCC minimum English standard.  
Hours: 32-36 lecture, 48-54 lab.*

Develops the principles taught in WELD 120, expanding the student's ability to weld one-inch thick certification plates in all positions with low hydrogen electrodes. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned.

## **WELD 122 Pipe Welding (Basic)**

**3.0 Units**

*Course Advisory: Successful completion of IT 110 or prior welding experience; SCC minimum English standard.  
Hours: 32-36 lecture, 48-54 lab.*

Presents the theory, procedure, and manipulative skills required to meet certification standards on schedule 80 steel pipe in the horizontal fixed position. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned.

## **WELD 123 Pipe Welding (Advanced)**

**3.0 Units**

*Course Advisory: Successful completion of IT 110 or prior welding experience; SCC minimum English standard.  
Hours: 32-36 lecture, 48-54 lab.*

Develops the principles taught in WELD 122, expanding the student's ability to weld pipe in all positions. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned.

## **WELD 124 Gas Tungsten Arc Welding (GTAW)**

**3.0 Units**

*Course Advisory: Successful completion of IT 110 or prior welding experience; SCC minimum English standard.  
Hours: 32-36 lecture, 48-54 lab.*

Presents the theory, procedures, and manipulative skills required to weld aluminum steel and stainless steel with the Gas Tungsten Arc process. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned.

# Welding

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## **WELD 125 Gas Metal Arc Welding 3.0 Units**

*Course Advisory: Successful completion of IT 110 or prior welding experience; SCC minimum English standard.*  
*Hours: 32-36 lecture, 48-54 lab.*

Presents the theory, procedures, and manipulative skills required to weld steel and aluminum with the gas metal arc process. Includes the manipulative skills required to weld with the flux cored arc process. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned.

## **WELD 126 Ornamental Iron Welding 3.0 Units**

*Course Advisory: Successful completion of IT 110 or prior welding experience; SCC minimum English standard.*  
*Hours: 32-36 lecture, 48-54 lab.*

Presents the theory, procedures, and manipulative skills required to fabricate and weld ornamental iron projects. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned.

## **WELD 130 3.0 Units**

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

*Course Advisory: SCC minimum English and Math standards.*  
*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.

## **WELD 131 3.0 Units**

### **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 student's ability to problem solve, develop and enhance welding skills.

## **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.

## **WELD 135 MIG (GMAW) Welding 3.0 Units**

*Course Advisory: SCC minimum English standard.*  
*Hours: 32-36 lecture, 48-54 lab.*

Builds on WELD 134 basic MIG welding. Advances the skills previously taught 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); Aluminum spool guns; and 35 pound Stainless steel 304 and 308 wires.

## **WELD 136 3.0 Units**

### **Beginning Structural Steel and Flux Core Arc Weld (FCAW)**

*Course Advisory: SCC minimum English and Math standards.*  
*Hours: 32-36 lecture, 48-54 lab.*

Emphasizes 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).

## **WELD 137 3.0 Units**

### **Advanced Structural Steel and Flux Core Arc Weld (FCAW)**

*Prerequisite: WELD 136 with a minimum grade of C.*  
*Hours: 32-36 lecture, 48-54 lab.*

Emphasizes developing skills on structural steel and FCAW practices. Related instruction will include ferrous metal identification and welding characteristics, FCAW welding applications and variable, dual shield inert shielding gases and mixtures, troubleshoot FCAW equipment and welds completed in the vertical and overhead position (3G 4G positions).

# Welding

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## **WELD 145**

### **Intermediate Pipe Welding 7018 STK (SMAW)**

*Prerequisite: Industry experience.*

*Hours: 32-36 lecture, 48-54 lab.*

Emphasizes API 1104 certification. Code, pipe classification and identification. Completion of the course does not guarantee certification unless welding procedure qualification tests are passed. Pipe welding is a skill that requires a great deal of hand eye coordination. Hours of practice are needed to master skills to advance and become skilled for employment.

**3.0 Units**

## **WELD 500 Special Welding Problems**

**0.0 Units**

*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 studying in the area of their choice. The 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.

## **WELD 175 CNC Plasma (Cutting Automation) 3.0 Units**

*Course Advisory: SCC minimum English and Math standards.*

*Hours: 32-36 lecture, 48-54 lab.*

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