

Shasta College 2014-15 Associate Degree Requirements

The information provided below gives a brief description of the degrees offered at Shasta College. It **does not** outline all of the requirements to obtain an associate degree from Shasta College or all of the requirements to transfer to a four-year college or university. All students should schedule an appointment to speak with a counselor to ensure that they meet all of the degree and/or transfer requirements. Meeting with a counselor also helps ensure that the student is pursuing a degree that meets his or her educational and career goals.

TRANSFER DEGREES

The following associate degrees for transfer are designed for the student who wishes to complete lower-division requirements in preparation for transfer to a four-year college or university.

Associate Degrees for Transfer (ADT)
Associate of Arts – University Studies
Associate of Arts (Music)
Associate of Science (Ag – Ag Business, Ag – Environmental Horticulture, and Ag – Sustainable Ag)

Associate Degrees for Transfer (ADT):

Designed for the student planning on transferring to the California State University (CSU) system. Students complete the CSU or IGETC general education pattern and specific courses related to their major. Students who are awarded these degrees are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses. This degree requires a minimum of 60 transferrable units. The student completing this degree is not subject to specific community college graduation requirements.

Students who have been awarded an AA-T or AS-T are able to complete their remaining requirement for the 120-unit baccalaureate degree within 60 semester or 90 quarter units.

Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs. Shasta College offers the following AA-T/AS-T degrees:

Administration of Justice	Kinesiology	Sociology
Business Administration	Music	Studio Arts
Communication Studies	Philosophy	Theatre Arts
Early Childhood Education	Physics	
English	Psychology	

REQUIREMENTS:

- Unit Requirement:** Minimum of 60 California State University (CSU) transferrable semester units, courses numbered 1-99 at Shasta College.
- Scholarship Requirement:** An overall grade point average (GPA) of not less than 2.0 in all transferrable coursework. While a minimum of 2.0 is required for this degree, some majors or transfer universities may require a higher GPA. Please consult with a counselor for more information.
- Residence Requirement:** The last twelve (12) semester units of the sixty (60) semester units must be completed in residence at Shasta College immediately prior to graduation or a minimum of forty-eight (48) semester units must have been completed in residence at Shasta College if the student is not in attendance at the time of qualification for graduation.
- Course Requirements:**
 - Major Field of Study: Select an “AA-T” or “AS-T” major. All courses in the major must be completed with a grade of “C” or higher.
 - General Education: Certified completion of the California State University General Education (CSU GE); OR the Intersegmental General Education Transfer Curriculum (IGETC). *Note: If completing IGETC all courses must be completed with a grade of “C” or higher.*
 - Advanced Placement (AP) examination credit can be used to satisfy both CSU GE and IGETC.
 - Credit through the College Level Examination Program (CLEP) can be used to satisfy CSU GE. *Note: The University of California does not accept credit awarded through CLEP.*
- Competency Requirements:** Oral Communication, English Composition, Critical Thinking, and Quantitative Reasoning courses must be completed with a grade of “C” or higher.
- These degrees do not require completion of a multicultural course or demonstration of computer literacy for Shasta College graduation purposes.

Associate Degrees for Transfer start on next page....

Administration of Justice

Associate in Science for Transfer:

SC Program: AS-T.1003

PROGRAM DESCRIPTION: This course of study prepares students for transfer to complete work for a bachelor's degree in criminal justice or economic crime investigation. Students will be able to describe the individual functions and components of the modern criminal justice system; use introductory concepts of legal research to locate, analyze, and discuss the content of statutory and case law; and explain the underlying cause of antisocial and criminal behavior. Proper selection of curriculum electives further enables students to study other academic disciplines, such as political science, sociology, and public administration. This program is appropriate for students considering law school as well as certain careers in law enforcement.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Identify and apply communication skills when interacting with all people.
2. Identify the need for understanding diverse populations in the criminal justice field and establish strategies for effectively communicating with those diverse populations.
3. Identify the cultural differences found in most communities and apply methods of effectively bridging those differences.
4. Demonstrate and apply critical thinking skills in dealing with ethical decision making within the criminal justice system.
5. Demonstrate the ability to locate resources which enable the resolution of problems within the community and the participants of the criminal justice system.
6. Recognize the major impact ethics and morality has on the citizens the law enforcement profession serves and the daily interaction with others within the criminal justice system.
7. Develop effective writing skills to properly document law enforcement priorities.
8. Demonstrate an understanding of the theory and application of law enforcement rules, regulations, and applicable laws.
9. Demonstrate the ability to make the correct decision during critical life-threatening situations.

REQUIREMENTS:

In addition to the 37-39 unit general education pattern for CSU or IGETC, students must complete the core courses listed below for the Associate in Science in Administration of Justice for Transfer Degree. Students must also obtain a minimum grade point average of 2.0 and a C or better in each major course. A "P" (Pass) grade is not an acceptable grade for courses in this major.

REQUIRED CORE:

ADJU 10*	Introduction to Administration of Justice	3
ADJU 15	Concepts of Criminal Law	3

LIST A (Choose two courses from the following):

ADJU 16	Legal Aspects of Evidence (3)	6
ADJU 17	Principles/ Procedures of the Justice System (3)	
ADJU 18	Community Relations (3)	
ADJU 20	Principles of Investigation (3)	
ADJU 22	Juvenile Procedures (3)	
ADJU 40	Introduction to Corrections (3)	

LIST B (Choose two courses from the following):

ADJU 45	Criminal Street Gangs (3)	6-7
ADJU 46	Narcotic and Drug Abuse (3)	
MATH 14*#	Introduction to Statistics (4)	
PSYC 1A*#	General Psychology (3)	
SOC 1*#	Introduction to Sociology (3)	

*May be used to fulfill CSU General Education requirements. See a counselor.
#May be used to fulfill IGETC requirements. See a counselor.

ASSOCIATE IN SCIENCE IN ADMINISTRATION OF JUSTICE FOR TRANSFER DEGREE REQUIREMENTS:

Major	18-19
General Education	37-39*
General Electives	10-12*

Degree Total Will Not Exceed 60 Units

*Number will vary depending on units that double count.

Business Administration

Associate in Science for Transfer:

SC Program: AS-T.1001

PROGRAM DESCRIPTION: The Associate in Science in Business Administration for Transfer degree is designed to provide students with the common core of lower division courses required to transfer and pursue a baccalaureate degree in Business Administration. This includes business degrees with options such as accounting, finance, human resources management, international business, management, operations management, and marketing. The Associate in Science in Business Administration for Transfer degree aligns with the CSU Bachelor of Science in Business Administration.

This degree is approved through the California Community College Chancellor's Office. **Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Express the accounting equation; identify and perform the processes of the accounting cycle; and prepare and interpret the basic financial statements for service and merchandising organizations in accordance with generally accepted accounting principles.
2. Identify and illustrate fundamental accounting concepts, classifications, cost systems, cost-volume-profit relationships, budgeting and profit planning to support planning, control and decision making activities of management.
3. Prepare and process payroll records and payroll tax returns in compliance with applicable federal and state laws and regulations.
4. Apply the Internal Revenue Code and related Treasury Regulations as they relate to individual, partnership and corporation income taxes; prepare simple individual income tax returns.
5. Utilize their ability to identify and apply business and finance concepts to advance into upper division coursework as business majors in the fields of accounting, finance, marketing, management and information technology and services.

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Business Administration AS-T Degree (continued):

REQUIREMENTS:

In addition to the 37-39 unit general education pattern for CSU or IGETC, students must complete the core courses listed below for the Associate in Science in Business Administration for Transfer degree. Students must also obtain a minimum grade point average of 2.0 and a C or better in each major course. A "P" (Pass) grade is not an acceptable grade for courses in this major.

REQUIRED CORE:

ACCT 2	Introduction to Financial Accounting	4
ACCT 4	Introduction to Managerial Accounting	4
BUAD 6	Business Law I	3
ECON 1A**	Principles of Economics (Micro)	3
ECON 1B**	Principles of Economics (Macro)	3

LIST A: (Choose one course from the following) 3-4

MATH 8**	Finite Mathematics (3)
MATH 9**	Survey of Calculus (4)
MATH 14**	Introduction to Statistics (4)

LIST B: (Choose two course from the following) 6-8
Any List A course not used above

BUAD 10	Introduction to Business (3) OR
BUAD 66	Business Communications (3)
CIS 1	Computer Literacy Workshop (3)

*May be used to fulfill CSU General Education requirements. See a counselor.
#May be used to fulfill IGETC requirements. See a counselor.

ASSOCIATE IN SCIENCE IN BUSINESS ADMINISTRATION FOR TRANSFER DEGREE REQUIREMENTS:	
Major	26-28
General Education	37-39*
General Electives	2-6*
Degree Total Will Not Exceed 60 Units	
*Number will vary depending on units that double count.	

Communication Studies

Associate in Arts for Transfer:

SC Program: AA-T.1001

PROGRAM DESCRIPTION: Communication classes provide students with skills that are essential for other classes and programs at Shasta College and beyond. The Associate in Arts in Communication Studies for Transfer program teaches communication theory and competencies that are crucial for success in both personal and business relationships. Students learn analytical and critical thinking skills that are essential life skills. Good oral communication skills have been documented by research to be an important factor in the health of personal relationships, and these skills have even been linked to one's physical and psychological health. Communication courses enable students to lead richer, more satisfying and productive lives by improving their grasp of core theories and practical skills. The results are often immediate and dramatic, improving both personal and professional relationships in both large and small groups. The Associate in Arts in Communication Studies for Transfer degree aligns with the CSU Bachelor of Arts in Communication Studies.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Identify the role communication plays in academic, social and professional endeavors.
2. Present well-designed, well-researched, well-developed and supported information and persuasive presentations.

3. Demonstrate the tools of advocacy for issues of justice and fairness, with integrity and civility.
4. Demonstrate the skills of critical thinking, recognize common fallacies of thought, demonstrate active listening, conflict management and win-win problem solving essential for both personal relationships and team work.
5. Identify crucial issues affecting intercultural communication, and the adaptations necessary for successful interactions between cultures.

REQUIREMENTS:

In addition to the 37-39 unit general education pattern for CSU or IGETC, students must complete the core courses listed below for the Associate in Arts in Communication Studies for Transfer Degree. Students must also obtain a minimum grade point average of 2.0 and a C or better in each major course. A "P" (Pass) grade is not an acceptable grade for courses in this major.

REQUIRED CORE:

CMST 60*#	Public Speaking	3
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LIST A (Choose six units from the following): 6

CMST 10*#	Interpersonal Communication (3 units)
CMST 40*	Argumentation and Debate (3 units)
CMST 54*#	Small Group Communication (3 units)

LIST B (Choose six units from the following): 6

Any List A course not used above	
CMST 20*	Intercultural Communication (3 units)
CMST 30*	Oral Interpretation (3 units)
CMST 75	Forensics Workshop (3 units)

LIST C (Choose three units from the following): 3

Any List A or List B course not used above	
ANTH 2*#	Cultural Anthropology (3 units)
JOUR 21*	Introduction to Mass Communications (3 units)
PSYC 1A*#	General Psychology (3 units)
SOC 1*#	Introduction to Sociology (3 units)

*May be used to fulfill CSU General Education requirements. See a counselor.
#May be used to fulfill IGETC requirements. See a counselor.

ASSOCIATE IN ARTS IN COMMUNICATION STUDIES FOR TRANSFER DEGREE REQUIREMENTS:	
Major	18
General Education	37-39*
General Electives	8-18*
Degree Total Will Not Exceed 60 Units	
*Number will vary depending on units that double count.	

Early Childhood Education

Associate in Science for Transfer:

SC Program: AS-T.1002

PROGRAM DESCRIPTION: The Associate of Science Early Childhood Education Transfer degree is designed to provide students with a common core of eight early childhood education courses (approved by the Curriculum Alignment Project) that permit students to transfer smoothly to participating CSU's to complete a Bachelor's degree in child development or early childhood education.

The degree is designed to facilitate students' successful transfer to certain California State University (CSU) campuses that prepare them for advanced study in a variety of graduate programs, as well as a variety of careers such as teaching, Child Development Specialist, Program Directors, and Child Life Specialists. With a BA in ECE/Child Development, students are eligible for the Master Teacher and Site Supervisor levels of the CA Child Development Permit, using the Alternative Qualifications category.

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Early Childhood Education AS-T Degree (continued):

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Exhibit skill in identifying the needs, the characteristics and multiple influences on the development of children birth to age eight.
2. Design, execute and evaluate environments and activities that support positive developmental play and learning outcomes for young children.
3. Establish and maintain safe and healthy learning environments for young children.
4. Observe, document, and use authentic assessment tools as a vehicle for child and program assessment and curriculum design.
5. Utilize ethical standards and professional behaviors that deepen understanding, knowledge, and commitment regarding the ECE profession.
6. Build family and community relationships and understand and value the importance and complex characteristics of families and communities in young children's development.
7. Evaluate developmentally effective approaches to create positive relationships and supportive interactions as the foundation in working with children and families from diverse societies.
8. Upon completion of a program of study in Early Childhood Education students will, through planned and sequenced field experiences, develop the knowledge, skills and professional dispositions necessary to promote the development and learning of young children across the entire developmental period of early childhood in multiple early childhood age groups and in the variety of settings that offer early care and education.

REQUIREMENTS:

In addition to the 37-39 unit general education pattern for CSU or IGETC, students must complete the core courses listed below for the Associate in Science in Early Childhood Education for Transfer degree. Students must also obtain a minimum grade point average of 2.0 and a C or better in each major course. A "P" (Pass) grade is not an acceptable grade for courses in this major.

REQUIRED CORE:

ECE 2*	Child, Family, Community	3
ECE 7	Early Childhood Observation and Assessment	3
ECE 8	Teaching Practicum for Young Children	5
ECE 9*#	Child, Growth and Development	3
ECE 15	Child, Health, Safety and Nutrition	3
ECE 17	Principles/Practices of Teaching Young Children	3
ECE 20	Introduction to Curriculum	3
ECE 28	Teaching in a Diverse Society	3

*May be used to fulfill CSU General Education requirements. See a counselor.

#May be used to fulfill IGETC requirements. See a counselor.

ASSOCIATE IN SCIENCE IN EARLY CHILDHOOD EDUCATION FOR TRANSFER DEGREE REQUIREMENTS:	
Major	26
General Education	37-39*
General Electives	0-1*
Degree Total Will Not Exceed 60 Units	
*Number will vary depending on units that double count.	

English**Associate in Arts for Transfer:****SC Program: AA-T.1007**

PROGRAM DESCRIPTION: The Associate in Arts in English for Transfer degree introduces students to English or English Education study and preparation, including the appreciation and understanding of literary works through intellectual and cultural movements, such as Utilitarianism or the Aesthetic Movement, and historical and social changes. The Associate in Arts in English for Transfer degree is designed to provide students with a common core of lower division courses required to transfer and pursue a baccalaureate (4-year) degree in English in the CSU system.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Define basic critical reasoning concepts; identify literary genres; and write effective clear and well-organized analytical arguments or literary analyses.
2. Identify and discuss plot, conflict, setting, time frame, characters (protagonist and antagonist), dialogue, suspense, rising action, and denouement with works of literature in papers and on examinations.
3. Identify and write about or discuss diction, syntax, figurative language, sound and rhythm, irony, and various poetic forms.
4. Analyze and write about literature with an understanding of the historical and cultural contexts from which literary classics spring.
5. Apply a variety of approaches to the analysis of literary works, including but not limited to historical, thematic, and formal approaches.

REQUIREMENTS:

In addition to the 37-39 unit general education pattern for CSU or IGETC, students must complete the core courses listed below for the Associate in Arts in English for Transfer Degree. Students must also obtain a minimum grade point average of 2.0 and a C or better in each major course. A "P" (Pass) grade is not an acceptable grade for courses in this major.

REQUIRED CORE:

ENGL 1B*#	Literature and Composition	3
ENGL 1C*#	Critical Reasoning, Reading and Writing	3

LIST A (Choose two courses from the following): 6

ENGL 10A*#	World Literature to 1650 (3)
ENGL 10B*#	World Literature after 1650 (3)
ENGL 11A*#	Survey of American Lit., Pre-Colonial to 1860 (3)
ENGL 11B*#	Survey of American Literature, 1860-present (3)
ENGL 13A*#	Survey of English Literature (3)
ENGL 13B*#	Survey of English Literature (3)

LIST B (Choose one course from the following): 3

Any List A course not used above	
ENGL 14*#	A Survey of Drama as Literature (3)
ENGL 15*#	Literature By and About Women (3)
ENGL 16*#	Poetry (3)
ENGL 17*#	Introduction to Shakespeare (3)
ENGL 18*#	African American Literature (3)
ENGL 19*#	A Survey of the Bible as Literature (3)
ENGL 20*#	World Mythology (3)
ENGL 24*#	Multicultural Perspectives in American Literature (3)
ENGL 25*#	Linguistics (3)
ENGL 31*#	Creative Writing (3)
ENGL 33*#	Film and Fiction (3)
ENGL 36*#	Children's Literature (3)

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English AA-T Degree (continued):

LIST C (Choose one course from the following):	3-5
Any List A or B course not used above	
ASL 1*	American Sign Language 1 (4)
ASL 2-4*#	American Sign Language, 2-4 (4)
CHIN 1*	Mandarin Chinese (5)
FREN 1*	Elementary French (5)
FREN 2-4*#	Elementary/Intermediate French (3-5)
GERM 1*	Elementary German (5)
GERM 2*#	Elementary German (5)
JAPN 1*	Elementary Japanese (5)
JAPN 2-4*#	Elementary/Intermediate Japanese (5)
SPAN 1*	Elementary Spanish (5)
SPAN 2-4*#	Elementary/Intermediate Spanish (3-5)
CMST 30*	Oral Interpretation (3)
THTR 1*#	Introduction to Theatre (3)

*May be used to fulfill CSU General Education requirements. See a counselor.
#May be used to fulfill IGETC requirements. See a counselor.

**ASSOCIATE IN ARTS IN ENGLISH FOR
TRANSFER DEGREE REQUIREMENTS:**

Major	18-20
General Education	37-39*
General Electives	10-17*

Degree Total Will Not Exceed 60 Units

*Number will vary depending on units that double count.

Kinesiology

Associate in Arts for Transfer:

SC Program: AA-T.1003

PROGRAM DESCRIPTION: The Associates in Arts in Kinesiology for Transfer provides students with the opportunity to meet the requirements for transfer to the California State University system in the Kinesiology major. The degree is designed to prepare students for a variety of career options in the field of Kinesiology such as teaching, exercise science, sports medicine, and physical therapy. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Identify and apply the concepts, theoretical principles, and historical and current trends in the field of Kinesiology.
2. Understand how exercise in the form of physical activity contributes to the physiological responses and adaptations of the human body.
3. Apply critical thinking, writing, reading, oral communication, and quantitative and qualitative analysis to skill and movement-related concepts.
4. Identify and apply the scientific principles of movement, exercise, and sport including the knowledge and skill in the listed activity course families of fitness, aquatics, individual sport and team sport.
5. Transfer to the California State University level programs with a comprehensive foundation in Kinesiology courses.

REQUIREMENTS:

In addition to the 37-39 unit general education pattern for CSU or IGETC, students must complete the core courses listed below for the Associate in Arts in Kinesiology for Transfer Degree. Students must also obtain a minimum grade point average of 2.0 and a C or better in each major course. A "P" (Pass) grade is not an acceptable grade for courses in this major.

REQUIRED CORE:

ANAT 1*#	Human Anatomy with Lab	5
KINES 1	Foundations of Kinesiology	3
PHY 1*#	Physiology with Lab	5

Movement Based Courses: (minimum of 3) 3

Select a maximum of one course from any three of the following areas for a minimum of three units.

Aquatics:

PE 30A	Beginning Swimming (1) OR
PE 30B	Intermediate Swimming (1) OR
PE 31	Aqua Aerobics (1) OR
PE 32	Water Polo (1) OR
PE 37	Springboard Diving (1)

Combatives:

PE 60	Self Defense (1)
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Fitness and Conditioning:

PE 11	Fundamental Conditioning (1) OR
PE 12A	Beg. Weight Training and Fitness (1) OR
PE 12B	Inter. Weight Training and Fitness (1) OR
PE 15	Aerobic Dance (1) OR
PE 16	Aerobic Exercise (1) OR
PE 17	Yoga (1)

Individual Sports:

PE 51A	Beginning Tennis (1) OR
PE 51B	Intermediate Tennis (1) OR
PE 62	Golf (1) OR

Team Sports:

PE 69	Football (1) OR
PE 70A	Beginning Volleyball (1) OR
PE 70B	Intermediate Volleyball (1) OR
PE 71	Softball (1) OR
PE 72	Baseball (1) OR
PE 74	Soccer (1) OR
PE 75	Basketball (1)

LIST A (Choose two courses from the following): 7-9

CHEM 1A*#	General Chemistry (5) OR
CHEM 2A*#	Introduction to Chemistry (5)
KINES 2	Sports Emergency Care (3)
MATH 14*#	Introduction to Statistics (4)
PHYS 2A*#	General Physics (4)

*May be used to fulfill CSU General Education requirements. See a counselor.
#May be used to fulfill IGETC requirements. See a counselor.

**ASSOCIATE IN ARTS IN KINESIOLOGY FOR
TRANSFER DEGREE REQUIREMENTS:**

Major	23-25
General Education	37-39*
General Electives	2-9*

Degree Total Will Not Exceed 60 Units

*Number will vary depending on units that double count.

Music

Associate in Arts for Transfer:

SC Program: AA-T.1008

PROGRAM DESCRIPTION: The Associate in Arts in Music for Transfer Degree is designed to prepare the student for transfer to four-year institutions of higher education and specifically intended to satisfy the lower division requirements for the Baccalaureate in Arts in Music at the California State University. This degree is designed to prepare students to demonstrate competence and discipline in the study of music theory, music analysis, music composition, and musicianship skills, and to demonstrate proficiency in ensemble skills and solo performance skills. Completion of this curriculum will demonstrate commitment to the serious study of Music in practice and in theory and provide comprehensive preparation for upper-division work

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. List and describe the major concepts, vocabulary, theoretical perspectives, and creative performance practices of music.
2. Demonstrate ensemble specific performance practices and professional standards of conduct expected of ensemble participants.
3. Perform solo literature with an accompanist (if appropriate) using stylistically accurate rhythm, pitch, diction (or articulation) and musical expression.
4. Demonstrate the ability to "audiate" a musical score by sight reading and performing complex rhythms and by sight-singing chromatic, modulating, and post-tonal melodies.
5. Demonstrate the ability to recognize patterns and musical function by aurally identifying and transcribing scales, modes, post-tonal melodies, and complex harmonic progressions. Analyze chromatic harmonic progressions that include modulation using 20th century techniques.

REQUIREMENTS:

In addition to the 37-39 unit general education pattern for CSU or IGETC, students must complete the core courses listed below for the Associate in Arts in Music for Transfer Degree. Students must also obtain a minimum grade point average of 2.0 and a C or better in each major course. A "P" (Pass) grade is not an acceptable grade for courses in this major.

REQUIRED CORE:

MUS 2	Diatonic Harmony and Musicianship	4
MUS 3	Advanced Diatonic Harmony and Musicianship	4
MUS 4	Chromatic Harmony	4
MUS 5	20th Century Harmony	4
MUS 48	Applied Music (four semesters, .5 units each)	2

Large Ensemble (4 semesters, 1 unit each from the following):	4
MUS 31	Chamber Choir (1)
MUS 33	Jazz Ensemble (1)
MUS 35	Vocal Jazz Ensemble (1)
MUS 40	Concert Choir (1)
MUS 41	Shasta College Women's Ensemble (1)
MUS 42	Shasta College Chorale (1)
MUS 43	Shasta College Symphony Orchestra (1)
MUS 44	Shasta College Youth Symphony (.5-1)
MUS 46	Shasta College Symphonic Band (1)
MUS 47	Shasta College Jazz Ensemble (1)

ASSOCIATE IN ARTS IN MUSIC FOR TRANSFER DEGREE REQUIREMENTS:

Major	22
General Education	37-39
General Electives	0-1

Degree Total Will Not Exceed 60 Units

Philosophy

Associate in Arts for Transfer:

Pending Chancellor's Office Approval Approved 6/26/2014

SC Program: AA-T.1009

PROGRAM DESCRIPTION: This program introduces students to Philosophy. Philosophy is the study or logical analysis of the principles underlying conduct, reasoning, value, knowledge and the nature of the universe. Students will engage in the critical analysis of a number of theories defended by philosophers, who have attempted to answer a number of fundamental and puzzling questions about ourselves and the nature of the universe. The Associate in Arts in Philosophy for Transfer degree is designed to provide students with a common core of lower division courses required to transfer and pursue a baccalaureate (4-year) degree in Philosophy in the CSU system

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Evaluate arguments to determine validity using two different methods.
2. State, explain and critically analyze competing theories in some of the following areas: Metaphysics, Epistemology, Political Philosophy, Philosophy of Religion, Aesthetics and Philosophy of Science.
3. State, explain and critically analyze the following two ethical theories: Kantianism and Utilitarianism.

REQUIREMENTS:

In addition to the 37-39 unit general education pattern for CSU or IGETC, students must complete the core courses listed below for the Associate in Arts in Philosophy for Transfer Degree. Students must also obtain a minimum grade point average of 2.0 and a C or better in each major course. A "P" (Pass) grade is not an acceptable grade for courses in this major.

REQUIRED CORE:

PHIL 8*#	Introduction to Logic	3
PHIL 6*#	Introduction to Philosophy <u>OR</u>	3
PHIL 7*#	Introduction to Ethics	

LIST A (Choose one course from the following): 3
PHIL 14*# Modern Western Philosophy (3)
Any course not selected from the List of Core courses above

LIST B (Choose two courses from the following): 6
ADJU 15 Concepts of Criminal Law (3)
BUAD 6 Business Law (3)
ENGL 1B*# Literature and Composition (3)
HIST 1A*# Western Civilization (3)
HIST 1B*# Western Civilization (3)
Any course not selected from List A above

LIST C (Choose one course) 3
Any course from List A or B not already used

*May be used to fulfill CSU General Education requirements. See a counselor.
#May be used to fulfill IGETC requirements. See a counselor.

ASSOCIATE IN ARTS IN PHILOSOPHY FOR TRANSFER DEGREE REQUIREMENTS:

Major	18
General Education	37-39*
General Electives	8-9-20*

Degree Total Will Not Exceed 60 Units

*Number will vary depending on units that double count.

Online catalog revised on 6/26/2014

In the event of a discrepancy between the online edition of the catalog and the printed version of the catalog, the online version is the official version.

Physics

Associate in Science for Transfer:

SC Program: AS-T.1004

PROGRAM DESCRIPTION: The Associate in Science in Physics for Transfer Degree (AS-T in Physics) provides students with the opportunity to meet the requirements for transfer to the California State University system in Physics or a similar major. In order to earn this degree a student must complete 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Completing this degree guarantees admission to the CSU system but not to a particular campus or major. The degree is designed to prepare students for upper division study in Physics and related fields. Physics graduates at the bachelor's level are qualified for employment by industry or government in a variety of technical positions. They also frequently enter graduate programs to pursue advanced degrees in Physics or related fields. Physics graduates are often well qualified for admission into professional programs in medicine or law. Those students interested in teaching at the high school level should know that the nation is experiencing a shortage of well qualified physics teachers. Current and prospective community college students interested in this degree are encouraged to meet with a Counselor to develop an educational plan that best meets their goals and needs.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Apply appropriate physical principles and use appropriate mathematical techniques to analyze a given real world physical problem.
2. Demonstrate basic experimental knowledge including experimental design, data analysis including error analysis, and interpretation of results.
3. Use computers and other technology as experimental and modeling tools.
4. Meet the requirements for transfer to a California State University with a major in Physics.

REQUIREMENTS:

In addition to the 37-39 unit general education pattern for CSU or IGETC, students must complete the core courses listed below for the Associate in Science in Physics for Transfer Degree. Students must also obtain a minimum grade point average of 2.0 and a C or better in each major course. A "P" (Pass) grade is not an acceptable grade for courses in this major.

REQUIRED CORE:

PHYS 4A*#	Physics (Mechanics)	4
PHYS 4B	Physics (Electricity and Magnetism)	4
PHYS 4C	Physics (Heat, Waves, Optics, and Modern Physics)	4
MATH 3A*#	Calculus 3A	4
MATH 3B*#	Calculus 3B	5
MATH 4A*#	Calculus 4A	4

Additional Recommended Preparation:

While these additional courses are not required for this degree, completing these courses will better prepare students for upper division coursework in physics. Some of these may be required for the Bachelor's degree. Check the catalog for the CSU campus to which you plan to transfer.

CHEM 1A/1B	General Chemistry (10 units)
MATH 4B	Differential Equations (4 units)
MATH 6	Linear Algebra (3 units)

*May be used to fulfill CSU General Education requirements. See a counselor.
#May be used to fulfill IGETC requirements. See a counselor.

ASSOCIATE IN SCIENCE IN PHYSICS FOR TRANSFER DEGREE REQUIREMENTS:

Major	25
General Education	37-39*
General Electives	3-4*

Degree Total Will Not Exceed 60 Units

*Number will vary depending on units that double count.

Psychology

Associate in Arts for Transfer:

SC Program: AA-T.1006

PROGRAM DESCRIPTION: This program introduces students to psychology as the scientific study of human behavior and mental processes and the practical application of psychology to personal and social issues. The Associate in Arts in Psychology for Transfer degree is designed to provide students with a common core of lower division courses required to transfer and pursue a baccalaureate (4-year) degree in psychology in the CSU system.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. List and describe the major concepts, vocabulary, theoretical perspectives, and empirical findings of psychology.
2. Describe and apply basic research methods in psychology.
3. Practice critical thinking to solve problems related to behavior and mental processes.
4. Link psychological concepts and principles to relevant practical applications.

REQUIREMENTS:

In addition to the 37-39 unit general education pattern for CSU or IGETC, students must complete the core courses listed below for the Associate in Arts in Psychology for Transfer Degree. Students must also obtain a minimum grade point average of 2.0 and a C or better in each major course. A "P" (Pass) grade is not an acceptable grade for courses in this major.

REQUIRED CORE:

MATH 14*#	Introduction to Statistics	4
PSYC 1A*#	General Psychology	3
PSYC 25	Introduction to Research Methods	3

LIST A (Choose one course from the following): 3-4

BIOL 1*#	Principles of Biology (4) OR
BIOL 10 & 10L*#	Gen Biology and Gen Biology Lab (3/1)
BIOL 5*#	Introduction to Human Biology (3)

LIST B (Choose one course from the following): 3-4

Any List A course not used above (3-4)	
ECE 1*#	Human Development (3)
ENGL 1B*	Literature and Composition (3) OR
ENGL 1C	Critical Reasoning, Reading, and Writing (3)
PSYC 15*#	Social Psychology (3)
SOC 1*#	Intro to Sociology (3)

Continued on next page...

Psychology AA-T Degree (continued):

LIST C (Choose one course from the following):	3-4
Any List A or List B course not used above	
PSYC 5*#	Human Sexuality (3)
PSYC 14*#	Psychology of Personal/Social Adjustment (3)
PSYC 16*	Health Psychology (3)
PSYC 17*#	Abnormal Psychology (3)
PSYC 20*#	Cross-Cultural Psychology (3)
PSYC 41	Cultural/Social Context of Childhood (3)
PSYC 46*#	Human Learning & Memory (3)

*May be used to fulfill CSU General Education requirements. See a counselor.

#May be used to fulfill IGETC requirements. See a counselor.

**ASSOCIATE IN ARTS IN PSYCHOLOGY FOR
TRANSFER DEGREE REQUIREMENTS:**

Major	19-21
General Education	37-39*
General Electives	18-20*

Degree Total Will Not Exceed 60 Units

*Number will vary depending on units that double count.

Sociology

Associate in Arts for Transfer:

SC Program: AA-T.1002

PROGRAM DESCRIPTION: Sociology is the systematic and scientific study of society and social behavior. The sociologist looks beyond individual and unique events to the predictable broad patterns and regular occurrences of social life that influence individuals. Studies range from the profound impact of post-industrial societies on family life, crime, mass communications, gender, race, ethnicity and intergenerational relations to the study of emotions and the values that govern daily social encounters.

The sociology major is designed to provide undergraduate preparation leading to careers in social work, politics, law, public administration, the nonprofit sector, international development, marketing, urban and environmental planning, public relations, personnel, criminal justice, counseling and other social service professions. The Associate in Arts in Sociology for Transfer degree will also prepare a student for advanced studies in several areas, including sociology, social work, environmental studies, education, public health and urban planning. This degree prepares students for a CSU Baccalaureate Degree in Sociology.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Articulate the sociological perspective on human behavior.
2. Compare and contrast the major theoretical orientations in sociology.
3. Articulate the role of theory and social research methods in sociology.
4. Describe research methodology and critically evaluate sociological data.
5. Integrate content knowledge and cognitive skills, i.e., logical thinking, problem-solving, and critical reasoning, when completing exams, term papers, and additional class assignments.
6. Apply sociological principles that contribute to the foundation for life-long personal growth, development of effective interpersonal and social skills, education, employment and everyday life.

REQUIREMENTS:

In addition to the 37-39 unit general education pattern for CSU or IGETC, students must complete the core courses listed below for the

Associate in Arts in Sociology for Transfer Degree. Students must also obtain a minimum grade point average of 2.0 and a C or better in each major course. A "P" (Pass) grade is not an acceptable grade for courses in this major.

REQUIRED CORE:

SOC 1*#	Introduction to Sociology	3
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LIST A

SOC 2*#	Social Problems	3
MATH 14*#	Introduction to Statistics	4

LIST B (Choose six units from the following):

PSYC 15	Social Psychology (3 units)	6
SOC 25*#	Sociology of Minorities (3 units)	
SOC 30*#	Sociology of Gender (3 units)	

LIST C (Choose three units from the following):

Any List A or List B course not used above		3
ANTH 2*#	Cultural Anthropology (3 units)	
GEOG 1B*#	Cultural Geography (3 units)	
PSYC 1A*#	General Psychology (3 units)	
SOC 15*#	Sociology of Mass Media (3 units)	
SOC 22*#	Sociology of Aging (3 units)	
SOC 70*	Social Welfare (3 units)	

*May be used to fulfill CSU General Education requirements. See a counselor.

#May be used to fulfill IGETC requirements. See a counselor.

**ASSOCIATE IN ARTS IN SOCIOLOGY FOR
TRANSFER DEGREE REQUIREMENTS:**

Major	19
General Education	37-39*
General Electives	11-17*

Degree Total Will Not Exceed 60 Units

*Number will vary depending on units that double count.

Studio Arts

Associate in Arts for Transfer:

SC Program: AA-T.1005

PROGRAM DESCRIPTION: The AA-T in Studio Arts program provides a solid foundation in the fundamentals of art, including conceptual awareness of current issues in art, technical competencies, visual aptitudes, and skills in many areas of human interaction, including relationship building, intercultural competency, critical thinking, information competency, teamwork and leadership. Students develop an understanding of the principles of art and design while investigating concepts and applying these elements to two dimensional compositions and three dimensional forms. The Art program is academically grounded in the liberal arts tradition of cultural studies, history, philosophy, and technical processes. It provides a hands-on, learn-by-doing environment that gives students experiences and skills to complement many career paths. The AA-T in Studio Arts will align with the CSU Bachelor of Fine Arts and Bachelor of Arts Degrees.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Describe and successfully apply the elements and principles of art and design to two dimensional compositions or three dimensional forms
2. Select appropriate tools and techniques in dealing with a variety of media to demonstrate informed, skilled and sensitive handling in the execution of two dimensional imagery and three dimensional forms.

Continued on next page...

Studio Arts AA-T Degree (continued):

- Investigate, develop and employ conceptual themes which clearly and consistently reflect the student's point of view.
- Effectively identify and utilize resources for art history research.
- Articulate in writing his/her objective and subjective understanding of two and three-dimensional works.
- Orally evaluate the works of fellow students and implement suggestions made through the evaluation of his/her work by others.
- Transfer to a California State University with a major in Studio Arts.

REQUIREMENTS:

In addition to the 37-39 unit general education pattern for CSU or IGETC, students must complete the core courses listed below for the Associate in Arts in Studio Arts for Transfer Degree. Students must also obtain a minimum grade point average of 2.0 and a C or better in each major course. A "P" (Pass) grade is not an acceptable grade for courses in this major.

REQUIRED CORE:

ART 3*#	History of Western Arts Since 1400	3
ART 12	Beginning Form, Design and Color	3
ART 15	Three Dimensional Design	3
ART 21A	Beginning Freehand Drawing	3

LIST A (Choose one course from the following) 3

ART 2*#	History of Western Art Through Gothic Period (3)
ART 4*#	World Art (3)

LIST B (Choose three courses from the following): 9

ART 13	Intermediate Form, Design and Color (3)
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ART 21B	Intermediate Freehand Drawing (3) OR
ART 31A	Beginning Figure Drawing (3)

ART 29A	Beginning Painting (3)
ART 35A	Beginning Ceramics (3)
ART 45	Beginning Glass (3)
ART 50A	Beginning Printmaking (3)
ART 55A	Beginning Sculpture (3)
ART 60A	Beginning Darkroom Photography (3)
ART 70A	Beginning Digital Photography (3)
ART 80A	Graphic Design (3)
ART 35B	Intermediate Ceramics (3)

*May be used to fulfill CSU General Education requirements. See a counselor.

#May be used to fulfill IGETC requirements. See a counselor.

**ASSOCIATE IN ARTS IN STUDIO ARTS FOR
TRANSFER DEGREE REQUIREMENTS:**

Major	24
General Education	37-39*
General Electives	3-5*

Degree Total Will Not Exceed 60 Units

*Number will vary depending on units that double count.

Theatre Arts

Associate in Arts for Transfer:

SC Program: AA-T.1004

PROGRAM DESCRIPTION: The Theatre Arts program is academically grounded in the liberal arts tradition of literature, performance, cultural studies, history, philosophy, and technical skills. It also provides a hands-on, learn-by-doing environment that gives students experiences and skills to complement many career paths. Employers find theatre trained applicants become valuable employees because they have developed excellent communication and problem-solving skills, confidence, and the ability to work cooperatively with a diverse team of people.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

- Describe the basic elements of dramatic structure and analyze the dramatic components in a theatrical production.
- Select appropriate monologues and prepare them as audition pieces.
- Investigate the themes and dramaturgy of the Greek, Roman, Medieval, Renaissance, Elizabethan, Jacobean and Restoration periods of Theatre history and compare and contrast those periods through discussion, papers, and performance analysis.
- Identify and apply the major components of stagecraft in the implementation of scenery, lighting, costume, make-up, special effects, and production management.
- Investigate the social, political, and spiritual objectives of theatrical performance through discussions and papers that deal with gender, politics and religion.
- Evaluate dramatic scripts relative to historical context and contemporary relevance.
- Develop cooperation skills in working with people from diverse cultures.
- Transfer to a California State University with a major in Theatre Arts.

REQUIREMENTS:

In addition to the 37-39 unit general education pattern for CSU or IGETC, students must complete the core courses listed below for the Associate in Arts in Theatre Arts for Transfer Degree. Students must also obtain a minimum grade point average of 2.0 and a C or better in each major course. A "P" (Pass) grade is not an acceptable grade for courses in this major.

REQUIRED CORE:

THTR 1*#	Introduction to Theatre Arts OR	3
THTR 8*#	History of World Theatre I	

THTR 12	Acting I	2
THTR 16	Acting Lab	1

Three units from the following:	3
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THTR 23	Mainstage Production I
THTR 26	Mainstage Production II
THTR 41	Theatre Lab
THTR 42	Technical Stage Production
THTR 50	Rehearsal and Performance
THTR 70	Repertory Theatre – I
THTR 74	Repertory Theatre – Technical

LIST A (Choose at least three courses for a 9 unit minimum) 9

Note: There is a 3-unit maximum in Rehearsal and Performance courses, and if you used them in the core, then you cannot use them in List A. There is a 3-unit maximum in Technical Theatre Practicum courses, and if you used them in the core then you cannot use them in List A.

THTR 30	Stagecraft (3)
THTR 31	Introduction to Theatrical Design (3)

THTR 34	Makeup (2) AND
THTR 38	Makeup Lab (1)

THTR 81	Playwriting and Script Analysis (3)
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Any Rehearsal and Performance or Technical Theatre Practicum course listed in Core but not used for Core requirements (1-3)

*May be used to fulfill CSU General Education requirements. See a counselor.

#May be used to fulfill IGETC requirements. See a counselor.

**ASSOCIATE IN ARTS IN THEATRE ARTS FOR
TRANSFER DEGREE REQUIREMENTS:**

Major	18
General Education	37-39*
General Electives	6-8*

Degree Total Will Not Exceed 60 Units

*Number will vary depending on units that double count.

Associate of Arts – University Studies Degree

Designed for students who plan on transferring to a four-year college or university. Students complete a General Education pattern, one emphasis area, and electives to total a minimum of 60 transferrable units for the AA degree.

Agriculture Sciences
Allied Health
Behavioral Science
Biological Sciences
Business Administration
Child Development
Criminal Justice
Earth System Science

Engineering
Geology
Humanities
Language Arts
Liberal Studies–Teaching Prep
Mathematics
Meteorology/Climatology
Multicultural Studies

Natural Sciences
Oceanography
Physical Education
Physical Sciences
Quantitative Reasoning
Science Teacher – Earth
Social Sciences
World Languages

REQUIREMENTS:

1. **Unit Requirement:** Minimum of 60 transferrable semester units, courses numbered 1-99 at Shasta College. *Note: Please see a counselor to ensure that all of your units are transferrable since there are some exceptions to this rule.*
2. **Scholarship Requirement:** An overall grade point average (GPA) of not less than 2.0 in all transferrable coursework. While a minimum of 2.0 is required for this degree, some majors or transfer institutions may require a higher GPA. Please consult with a counselor for more information.
3. **Residence Requirement:** The last twelve (12) semester units of the sixty (60) semester units must be completed in residence at Shasta College immediately prior to graduation or a minimum of forty-eight (48) semester units must have been completed in residence at Shasta College if the student is not in attendance at the time of qualification for graduation.
4. **Course Requirements:**
 - a. Major Field of Study: Select a University Studies emphasis area. All courses in the emphasis area must be completed with a grade of “C” or higher.
 - b. General Education: Completion of one of three general education options. *Note: If completing Intersegmental General Education Transfer Curriculum (IGETC) all courses must be completed with a grade of “C” or higher.*
 - i. Advanced Placement (AP) examination credit can be used to satisfy both California State University General Education (CSU GE) and IGETC.
 - ii. Credit through the College Level Examination Program (CLEP) can be used to satisfy CSU GE. *Note: The University of California does not accept credit awarded through CLEP.*
5. **Competency Requirements:**
 - a. English Composition, Critical Thinking, and Quantitative Reasoning courses must be completed with a grade of “C” or higher. *Note: If you are completing General Education options 2 or 3, an Oral Communication course is also required to be completed with a grade of “C” or higher.*
 - b. Multicultural Requirement: Courses in the Multicultural requirement area contain perspectives on people from other cultures and backgrounds as well as an examination of the contributions of non-Western cultures, or the intersection of culture with race, ethnicity, gender, class or other important social categories, such as religion. After successful completion of a course from this area, a student will be able to summarize various ethnic, racial, religious, gender, traditions, class and other group perspectives as well as their similarities and differences.

ADJU 24
ANTH 2, 14, 25
ART 4
ASL 1, 2, 3, 4
CHIN 1

CMST 20
ECE 28
ENGL 10A, 10B, 18, 20, 24
FREN 1, 2, 3, 4
GEOG 1B, 7, 8

GERM 1, 2
HIST 2, 3, 25, 35, 36, 38
JAPN 1, 2, 3, 4
MUS 14
POLS 20

PSYC 20, 41
SOC 25, 30
SPAN 1, 2, 3, 4

- c. Computer Literacy Competency Requirement: To earn an associate degree at Shasta College students must demonstrate computer literacy in one of the following ways:
 - CIS 1 Computer Literacy with a grade of C or better.
 - AGNR 52 Computers in Agriculture and Natural Resources with a grade of C or better.
 - Pass the Shasta College computer literacy exam. Contact the Assessment Office for more information.
 - Receive credit for CIS 1 through an articulated high school course. Check with your high school or the Shasta College counseling center for more information.
 - Possess IC³ certification.
 - Receive a score of 50 or higher on the CLEP Information Systems and Computer Applications exam.
 - Document completion of a computer literacy requirement at another college.
 - Minimum of three units to include the coursework options listed below with a grade of C or better:
 - OAS 91 (Word) or OAS 51 (Introduction to Keyboarding and Word); and any 2 units from the following: CIS 20 (Access), OAS 10 (Excel), OAS 80 (Outlook), or OAS 94 (PowerPoint).
 - Note: MOS or MCAS certification will substitute for the equivalent software class.*

AA - University Studies Degree continued on next page...

University Studies Degree Emphases (continued):

Choose one GE Option, one Emphasis, and transferable electives to total 60 units for the AA degree.

❖ **General Education – Choose Option 1, 2 or 3.**

OPTION 1: IGETC (Intersegmental General Education Transfer Curriculum)

Students who are planning to transfer to the **University of California** system or who are undecided about whether to transfer to a UC or CSU may satisfy general education requirements with IGETC.

1. Complete the 33 – 37 unit IGETC pattern.
2. Complete all IGETC courses with a grade of “C” or better.
3. Complete additional courses from an emphasis to meet the lower division requirements in your major and then electives to reach 60 units. UC transfer students must select all 60 units from courses on the UC transferable course list. (See www.assist.org)
4. Achieve a minimum grade point average of 2.0. [UC will require a minimum transfer GPA of 2.4. A higher GPA will be required for admission to most campuses and for high demand majors.] All courses in the area of emphasis must be completed with a C or better.

OPTION 2: CSU GE (California State Universities – General Education)

Students who are planning to transfer to one of the 23 campuses of the **California State University** system may satisfy general education requirements with the CSU pattern.

1. Complete the 39-unit CSU GE pattern.
2. Complete Communication, English, Critical Thinking, and Math requirements (Area A1, A2, A3 and B4) each with a grade of “C” or better.
3. Recommend completion of HIST 17A or 17B; and POLS 2 prior to transfer. These two courses are CSU graduation requirements and may be included as part of the 39-unit pattern.
4. Complete additional courses from an emphasis to meet the lower division requirements in your major and then electives to reach 60 units.
5. Achieve a minimum grade point average of 2.0 [A higher GPA will be required for admission to some campuses and for high demand and impacted majors.] All courses in the area of emphasis must be completed with a C or better.

OPTION 3: Independent, Out-of-state universities, and high unit/specialized majors

Complete 30 units to satisfy a GE-modified plan as indicated below:

CSU GE Pattern:

Select one course from each Category.

CATEGORY A1:	Oral Communication
CATEGORY A2:	English Composition
CATEGORY B1 or B2:	Science course
CATEGORY B4:	Transfer-level math course
CATEGORY C1 or C2:	Arts or Humanities
CATEGORY D:	Social, Political and Economic institutions, and Behavior
	*Multicultural course

Select additional courses from categories A3, B, C, D, or E from two different areas to total 30 or more GE units.

* Note: Any student completing the IGETC or CSU General Education requirements with the inclusion of a multicultural course will also have met the general education requirements for the Shasta College associate degree.

IGETC GE Pattern:

Select one course from each Area.

AREA 1–GROUP A	English Composition
AREA 1–GROUP C	Oral Communication
AREA 2	Mathematical Concepts
AREA 3	Arts or Humanities
AREA 4	Social and Behavioral Sciences
AREA 5	Physical or Biological Sciences
	*Multicultural course

Select additional courses from AREA 1B, 3, 4, or 5 from two different areas to total 30 or more GE units.

- ❖ **Emphasis:** Choose one of the University Studies emphases of 18 or more units to correspond with your choice of transfer major. Note that each university determines its own list of courses required for the major, so completion of an emphasis does not guarantee that all transfer major courses have been completed nor does it guarantee admission to the University. See a Counselor for comprehensive planning.
- ❖ **Multicultural requirement**
- ❖ **Computer competency requirement**
- ❖ **Electives:** Complete transferable electives to total 60 or more transferable units.
- ❖ **Course requirements:** All courses in the area of emphasis must be completed with a C or better.

University Studies Areas of Emphasis continued on next page...

Associate of Arts University Studies Areas of Emphasis:**University Studies: Agriculture Sciences – 18 units**

SC Program: AA.1491

The emphasis in Agriculture Sciences is designed to provide the lower division major courses to transfer to a university and earn a Bachelor's degree in Agriculture, Agriculture Business, and Horticulture.

Choose 12 – 18 units (see a counselor to select the courses appropriate for your transfer university):

AGAB 51	Agriculture Accounting (3)
AGAB 54	Agriculture Economics (3)
AGAS 11	Livestock Feeding and Nutrition (3)
AGAS 19	Principles of Animal Science (3)
AGPS 20	Plant Science (4)
AGPS 24	Soils (3)
CHEM 2A	General Chemistry (5)

Choose the remaining 0 – 6 units from the following courses:

AG	1, 6, 9A, 58, 94
AGAS	10, 11, 15, 19, 30
AGEH	22,23,26,27,28, 29, 31, 31.1,31.2,31.3,33,34,35,36,37, 38, 39, 40, 41, 44, 45, 46, 60, 71, 72, 94
AGEQ	12, 13, 14, 21
AGMA	42, 44
AGNR	1,6,11,12,50,51,52,53,55,60,61,64,65,66A,69,70,83,94
AGPS	25
AGSA	50, 56
AGVETT	16
AGVIT	80, 81
CHEM	2B
MATH	14

University Studies: Allied Health – 20 units

SC Program: AA.1511

The emphasis in Allied Health is designed to provide the lower division major courses to transfer to a university and earn a Bachelor's degree in Nursing or in other allied health fields.

Complete the following:

ANAT 1	Human Anatomy (5)
CHEM 2A	Introduction to Chemistry (5)
MICR 1	Microbiology (5)
PHY 1	Physiology (5)

University Studies: Behavioral Science – 19-21 units

SC Program: AA.1499

The Behavioral Sciences focus on the understanding of human beings, their actions and interactions, decision making processes, communication strategies, and the methods of inquiry used in the field. The A.A. in University Studies, Behavioral Sciences emphasis is a good option for students wishing to transfer to a four-year college or university to pursue a baccalaureate degree in anthropology, psychology, social work, and sociology.

Complete the following 19-21 units:

ANTH 2	Cultural Anthropology (3)
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Choose one of the following:

BIOL 1	Principles of Biology (4)
BIOL 5	Introduction to Human Biology (3)
BIOL 10	General Biology (3)
PHY 1	Physiology (5)

ECE 1	Human Development (3)
MATH 14	Statistics (4)
PSYC 1A	General Psychology (3)
SOC 1	Introduction to Sociology (3)

University Studies: Biological Sciences – 22 units

SC Program: AA.1507

The Biological Sciences emphasis is designed to provide the lower division major preparation for transfer in Biological Sciences.

Complete the following 22 units:

BIOL 1	Principles of Biology (4)
BOT 1	General Botany (4)
CHEM 1A	General Chemistry (5)
CHEM 1B	General Chemistry (5)
ZOOL 1	General Zoology (4)

University Studies: Business Administration – 20 – 21 units

SC Program: AA.1492

The emphasis in Business Administration is designed to provide students with the common core of lower division courses required by most universities to transfer and pursue a baccalaureate degree in Business Administration. This includes business degrees with options such as accounting, finance, human resources management, international business, management, operations management, and marketing. See a counselor before selecting your electives.

Complete the following 14 units:

ACCT 2	Financial Accounting (4)
ACCT 4	Managerial Accounting (4)
ECON 1A	Principles of Microeconomics (3)
ECON 1B	Principles of Macroeconomics (3)

Choose 6-7 additional units:

BUAD 6	Business Law (3)
BUAD10	Introduction to Business (3)
CIS 1	Computer Literacy Workshop (3)
MATH 14	Introduction to Statistics (4)

University Studies: Child Development – 18-20 units

SC Program: AA.1495

The Child Development emphasis is designed to provide the lower division major courses to transfer to a university and earn a Bachelor's degree in Child Development or Early Childhood Education.

Complete the following 12 units:

ECE 1	Human Development (3) OR
ECE 9	Child Growth and Development (3)
ECE 2	Child, Family, and Community (3)
ECE 7	Early Childhood Observation and Assessment (3)
ECE 15	Child Health, Safety and Nutrition (3)

Choose 6-8 additional units from the following:

ECE 8	Teaching Practicum for Young Children (5)
ECE 17	Principles/Practices of Teaching Young Children (3)
ECE 20	Introduction to Curriculum (3)
ECE 26	The Child With Special Needs (3)
ECE 28	Teaching in a Diverse Society (3)
ECE 52	Guidance in Adult-Child Relations (3)

University Studies: Criminal Justice – 18 units

SC Program: AA.1500

The emphasis in Criminal Justice is designed to provide the lower division major courses to transfer to a university and earn a Bachelor's degree in Criminal Justice.

Complete the following 6 units:

ADJU 10	Intro to Administration of Justice (3)
ADJU 15	Concepts of Criminal Law (3)

Choose 12 additional units:

ADJU	11, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26, 30, 40, 41, 42 (3 units each)
PSYC 1A	General Psychology (3)
SOC 1	Introduction to Sociology (3)
SOC 2	Social Problems (3)

University Studies: Earth System Science – 22 units

SC Program: AA.1508

Earth System Sciences represents an emerging trend in the sciences and many universities offer a degree or option along this track (i.e. Earth Science, Planetary Science). This academic plan is intended to support the transfer student interested in the bachelor's degree as it includes courses that define major portions of the Earth System, including geosphere, hydrosphere, atmosphere, and biosphere focused courses, and Earth's position in space.

Complete the following course:

ESCI 17	Earth System Science (3)
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Choose at least 11 units from the following to include at least two courses that focus on different portions of the Earth System (geosphere, hydrosphere, atmosphere, and biosphere):

AGNR 60	Environmental Science (3)
ASTR 1	Astronomy (3)
BIOL 1	Principles of Biology (4)
BIOL 10	General Biology (3)
ESCI 1	Physical Geology (4)
ESCI 14	Meteorology (4)
ESCI 15	Oceanography (4)
ESCI 18	Global Climate Change: Past, Present and Future (3)

Choose the remaining units from the following courses:

Related Science courses:

BIOL 11	Diversity of Life (3)
BIOL 12	Field Biology (3)
CHEM 1B	General Chemistry (5)
ESCI 2	Historical Geology (4)
ESCI 6	Ancient Life (4)
ESCI 10	Earthquakes/Volcanoes/Other Geologic Hazards (3)
NHIS 15	Natural History (3)
PHYS 2B	General College Physics (4)

Courses from supporting disciplines:

AGNR 1	Introduction to Natural Resources (3)
AGNR 83	Introduction to Global Positioning Systems (1)
CIS 1	Computer Literacy Workshop (3)
GEOG 10	Introduction to Geographic Information Systems (3)
MATH 3B	Calculus 3B (5)
MATH 14	Introduction to Statistics (4)

University Studies: Engineering – 27-30 units

SC Program: AA.1494

The emphasis in Engineering is designed to provide the lower division major courses to transfer to a university and earn a Bachelor's degree in the various fields of engineering. This includes Civil Engineering, Computer Engineering, Electrical Engineering, and Mechanical Engineering. See a counselor for the complete list of courses required for your engineering field and university -- the requirements typically total many more than 26 units and the general education areas are usually modified (see option #3).

Complete the following 21 units:

MATH 3A	Calculus (4)
MATH 3B	Calculus (5)
MATH 4A	Calculus (4)
PHYS 4A	Physics (Mechanics) (4)
PHYS 4B	Physics (Electricity and Magnetism) (4)

Choose 6-9 additional units:

CHEM 1A	General Chemistry (5)
CIS 61	C++ Language Programming (3)
ENGR 17	Circuits and Devices (4)
ENGR 35	Statics (3)
ENGR 45	Properties of Materials (4)
MATH 4B	Differential Equations (4)
PHYS 4C	Physics (Heat, Waves, Optics and Modern Physics) (4)

General Education units are modified for this major.

University Studies: Geology – 20 units

SC Program: AA.1497

Geology is a field-based study of earth materials, processes and history. All courses in this plan apply theory to field situations and the degree requires the completion of field-based classes. This approach should adequately prepare the transfer student for further and more intensive field experiences as they work to complete the bachelor's degree at a 4-year school.

Complete the following 8 units:

ESCI 1	Physical Geology (4)
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ESCI 2	Historical Geology (4) OR
ESCI 6	Ancient Life (4)

Select one combination of the following Earth Science field courses to total 3 units:

Two 30-series ESCI courses: 32, 33, 34, 35, 36, 37, 38 (1.5 units each)

OR

Three 40-series ESCI courses: 42, 43, 44, 45, 46 (1 unit each)

OR

ESCI 26 or ESCI 27 (2 units each)
--

AND

One 40-series ESCI courses: 42, 43, 44, 45, 46 (1 unit each)
--

Choose 9 units from the following list to include at least one additional science course (identified with an *):

Geology Courses:

*ESCI 3	Mineralogy and Crystal Optics (5)
*ESCI 4	Rock Origins and Relationships (4)
*ESCI 7	Introduction to the Geology of California (4)
*ESCI 9	Earthquakes/Volcanoes/Other Geologic Hazards (3)
*ESCI 10	Environmental Geology (4)
*ESCI 11	Economic Geology (3)
*ESCI 23	Introduction to Geology in the Field (2)

Supporting Disciplines:

AGNR 1	Introduction to Natural Resources (3)
AGNR 60	Environmental Science (3)
AGNR 83	Introduction to Global Positioning Systems (1)
*CHEM 1B	General Chemistry (5)
CIS 1	Computer Literacy Workshop (3)
GEOG 10	Introduction to Geographic Information Systems (3)
MATH 3B	Calculus 3B (5)
MATH 14	Introduction to Statistics (4)
*NHIS 15	Natural History (3)
*PHYS 2B	General College Physics (4)

University Studies: Humanities – 18 units

SC Program: AA.1513

These courses emphasize the study of cultural, literary, humanistic activities and artistic expression of human beings. With careful planning, the Humanities emphasis will satisfy the lower division major courses to transfer to a university and earn a Bachelor's degree in the various fields of Humanities.

Choose 18 units from at least 3 of the following disciplines:

ART 1, 2, 3, 4, 6, 12, 21A
ENGL 1B, 10AB, 11AB, 12, 13AB, 14, 15, 16, 17, 18, 19, 20, 24, 25, 31, 33, 36, 91

Foreign Lang. (American Sign Language, French, German, Japanese, Spanish)

HUM 2, 4, 70
MUS 1, 2, 3, 4, 5, 10, 11
PHIL 6, 7, 8
THTR 1, 5, 8, 9, 12, 13, 30, 31, 34
CMST 30
DAN (up to 3 units of Dance may apply to the emphasis)

University Studies: Language Arts – 18 units

SC Program: AA.1496

With careful planning, the Language Arts emphasis will satisfy the lower division major courses to transfer to a university and earn a Bachelor's degree in the various fields of Language Arts.

Choose 18 units from at least two areas:

CMST 10, 20, 30, 40, 54, 60
ENGL 1B, 1C, 10AB, 11AB, 13AB, 14, 15, 16, 17, 18, 19, 20, 24, 25, 31, 33, 36,

Foreign Languages:

ASL 1, 1L, 2, 2L, 3, 4
FREN 1, 2, 3, 4
GERM 1, 2
JAPN 1, 2, 3, 4, 19, 20
SPAN 1, 2, 3, 4, 19, 20
JOUR 21, 27, 29

University Studies: Liberal Studies –Teaching Prep – 29 units

SC Program: AA.1504

The Liberal Studies emphasis prepares students to transfer as a Liberal Studies major to campuses of the California State University system. This is the bachelor's degree major students select to prepare as an elementary school teacher and earn a multiple subjects credential. See a counselor for this major – many if not all courses satisfy the general educational pattern.

Complete the following 29 units:

BIOL 10 General Biology (3)
BIOL 10L General Biology Lab (1)

CMST 54	Small Group Communication (3) OR
CMST 60	Public Speaking (3)

ECE 1 Human Development (3)
EDUC 1 Introduction to Education and Teaching (3)

ESCI 12	General Earth Science (4) OR
PHSC 1	Physical Science Survey (4)

HIST 2	World Civilization to 1500 C.E. (3) OR
HIST 3	World Civilization: 1500 to Present (3)

HIST 17A	United States History (3) OR
HIST 17B	United States History (3)

MATH 41A	Concepts of Elementary Mathematics (3) OR
MATH 41B	Concepts of Elementary Mathematics (3)

POLS 2 Introduction to American Government (3)

University Studies: Mathematics – 24 units

SC Program: AA.1509

The Mathematics emphasis is designed to provide lower division major courses to transfer to a university and pursue a baccalaureate degree in mathematics.

Complete the following 24 units:

MATH 3A Calculus 3A (4)
MATH 3B Calculus 3B (5)
MATH 4A Calculus 4A (4)
MATH 4B Differential Equations (4)
MATH 6 Linear Algebra (3)
MATH 14 Intro to Statistics (4)

University Studies: Meteorology/Climatology – 18 units

SC Program: AA.1506

Many universities offer an Atmospheric Science degree or option and this academic plan is intended to support the transfer student interested in that bachelor's degree. Courses in this plan produce a foundation to transfer in such studies as weather and climate challenges that face society now and into the future.

Complete the following 10 units:

ESCI 14 Meteorology (4)
ESCI 17 Earth System Science (3)
ESCI 18 Global Climate (3)

Choose the remaining 8 units from the following list to include at least one additional science course:

Related Science Courses:

AGNR 60 Environmental Science (3)
AGNR 61 Environmental Science Lab (1)
ASTR 1 Astronomy (3)
CHEM 1B General Chemistry (5)
ESCI 10 Environmental Geology (4)
ESCI 15 Oceanography (4)
NHIS 15 Natural History (3)
PHYS 2B General College Physics (4)

Courses from supporting disciplines:

AGNR 1 Introduction to Natural Resources (3)
AGNR 83 Introduction to Global Positioning Systems (1)
CIS 1 Computer Literacy Workshop (3)
GEOG 10 Introduction to Geographic Information Systems (3)
MATH 3B Calculus 3A (5)
MATH 14 Introduction to Statistics (4)

University Studies: Multicultural Studies – 18 units

SC Program: AA.1502

This emphasis expands a student's understanding of other cultures and is good preparation for university majors in Multicultural Studies, Ethnic studies, and International relations. With careful planning it could be also be used for students interested in International Business, geography, and secondary teaching. Students in the Multicultural Studies program will be exposed to a diversity of non-western cultures, an increasingly valuable knowledge base in our global society.

Choose 18 units from at least 3 different disciplines:

ANTH 2, 14, 25
ART 4
CMST 20
ENGL 10A, 10B, 18, 20, 24
GEOG 1B, 5, 7, 8
HIST 25, 35, 36, 38
POLS 20, 25
PSYC 20, 41
SOC 25

University Studies: Natural Sciences – 18 units

SC Program: AA.1512

The Natural Sciences emphasis is designed to provide lower division major courses to transfer to a university and pursue baccalaureate degrees in life science and physical science areas.

Choose 18 transferable units from the following disciplines:

AGAS	19
AGEH	33
AGNR	60, 61
AGPS	20
ANAT	1
ASTR	1
BIOL	1, 5, 6, 10, 11, 12
BOT	1
CHEM	1A, 1B, 2A, 2B, 10, 11, 70, 70A, 71, 71A
ESCI	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 17, 18
FSS	25
MICR	1
NHIS	15
PHSC	1
PHY	1
PHYS	2A, 2B, 4A, 4B, 4C
ZOOL	1

University Studies: Oceanography – 22 units

SC Program: AA.1498

This degree plan identifies courses needed for a student to transfer into any of the marine sciences. The associate degree emphasizes a multidisciplinary approach as a foundation that can then be applied to an Oceanography bachelor's degree or a more specialized bachelor's degree such as Marine Biology or Marine Fisheries.

Complete the following 14 units:

BIOL 1	Principles of Biology (4)
ESCI 1	Physical Geology (4)
ESCI 15	Oceanography (4)
ESCI 16	Coastal Oceanographic Field Studies (2)

Choose the remaining 8 units from the following transferable courses to include at least one additional science course:

Related Science Courses:

AGNR 60	Environmental Science (3)
AGNR 61	Environmental Science Lab (1)
BIOL 12	Field Biology (3)
CHEM 1B	General Chemistry (5)
ESCI 10	Environmental Geology (4)
ESCI 17	Earth System Science (3)
ESCI 37	Geology of the Northern California Coast (1.5)
ESCI 38	Geology of Point Reyes National Seashore (1.5)
NHIS 15	Natural History (3)
NHIS 65	Natural History of Patrick's Point (1)
PHYS 2B	General College Physics

Courses from supporting disciplines:

AGNR 1	Introduction to Natural Resources (3)
AGNR 83	Introduction to Global Positioning Systems (1)
CIS 1	Computer Literacy Workshop (3)
GEOG 10	Introduction to Geographic Information Systems (3)
MATH 3B	Calculus 3B (5)
MATH 14	Introduction to Statistics (4)

University Studies: Physical Education – 18 units

SC Program: AA.1493

The Physical Education emphasis is designed to provide lower division major courses to transfer to a university and pursue baccalaureate degrees in Physical Education – teaching, kinesiology, and pre-physical therapy.

Choose 18 units from at least 3 areas:

ANAT	1
CHEM	1A, 1B, 2A, 2B
FSS	25
HLTH	1, 2, 3
KINES	1, 2
MATH	14 or 2
PE	4, 11, 12A, 12B, 12C, 15, 16, 17, 20, 23, 30A, 30B, 30C, 31, 32, 35, 37, 51A, 51B, 51C, 60, 62, 69, 70A, 70B, 70C, 71, 72, 73, 74, 75
PEAT	5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 23, 24, 25, 26, 29, 30
PHY	1
PHYS	2A, 2B
PSYC	1A

University Studies: Physical Sciences – 22 units

SC Program: AA.1510

The Physical Sciences emphasis is designed to provide students with the lower division major courses to transfer to a university and pursue baccalaureate degrees in chemistry, geology, physics, and related areas. See a counselor for the complete list for your choice of transfer university and major.

Complete the following 22 units:

CHEM 1A	General Chemistry (5)
CHEM 1B	General Chemistry (5)
MATH 3A	Calculus (4)
PHYS 2A	General College Physics (4) AND
PHYS 2B	General College Physics (4)
OR	
PHYS 4A	Physics/Mechanics (4) AND
PHYS 4B	Physics/Electricity and Magnetism (4)

University Studies: Quantitative Reasoning – 18 units

SC Program: AA.1503

The quantitative reasoning emphasis is a flexibly designed option which, with proper counseling, provides transfer coursework toward majors in computer science and math.

Choose a minimum of 18 units from the following mathematics and computer science courses:

MATH	2, 3A, 3B, 4A, 4B, 6, 8, 9, 10, 13, 14
CIS	2, 60, 61, 62, 63, 72

University Studies: Science Teacher – Earth – 20 units

SC Program: AA.1505

This degree plan prepares the student to transfer as they prepare for a Single Subject Teaching Credential in Science, Earth Science Concentration. Courses in this plan are designed to develop breadth and to demonstrate multidisciplinary aspects across the Earth Sciences.

Complete the following 8 units:

ESCI 1	Physical Geology (4)
ESCI 2	Historical Geology (4) OR
ESCI 6	Ancient Life (4)

Continued on next page...

University Studies: Science Teacher – Earth Emphasis (continued):

Choose the remaining 12 units from the following list to include at least six units from science courses:

Science courses:

AGNR 60	Environmental Science (3)
AGNR 61	Environmental Science Lab (1)
ASTR 1	Astronomy (3)
CHEM 1B	General Chemistry (5)
ESCI	7, 9, 10, 14, 15, 17, 18, 32, 33, 34, 35, 36, 37, 38, 42, 43, 44, 45, 46
NHIS 15	Natural History (3)
NHIS 65	Natural History of Patrick's Point (1)
PHYS 2B	General College Physics (4)

Courses from supporting disciplines:

AGNR 1	Introduction to Natural Resources (3)
AGNR 83	Introduction to Global Positioning Systems (1)
CIS 1	Computer Literacy Workshop (3)
GEOG 10	Introduction to Geographic Information Systems (3)
MATH 3B	Calculus 3B (5)
MATH 14	Introduction to Statistics (4)

University Studies: Social Sciences – 21 units

SC Program: AA.1501

The A.A. in University Studies, Social Sciences emphasis is designed to provide students with a strong foundation for the study of humanity from diverse perspectives. It is an excellent starting point for students interested in pursuing baccalaureate degrees in anthropology, history, political science, psychology, sociology.

Choose 21 units from at least three different disciplines:*

ANTH	1, 2, 5, 14, 25
ARCH	3, 4A
ECE	1, 2, 9
ECON	1A, 1B
FSS	16, 18
GEOG	1A, 1A1, 1B, 5, 7, 8
HIST	1A, 1B, 2, 3, 17A, 17B, 25, 35, 36, 38, 40, 55, 57
MATH	14*
POLS	1, 2, 20, 25
PSYC	1A, 5, 14, 15, 16, 17, 20, 25, 41, 46
SOC	1, 2, 15, 22, 25, 30, 70

*Students can take MATH 14 as part of the 21 units, but it does not fulfill one of the three discipline requirements.

University Studies: World Languages – 18 units

SC Program: AA.1514

The World Languages emphasis is recommended for students pursuing intermediate fluency in a world language to facilitate communication in professional settings or to begin the first two years of a language or literature major and transfer to a university.

Choose 10-18 units from the courses listed below:

ASL 1	American Sign Language (4)
ASL 2	American Sign Language 2 (4)
ASL 3	American Sign Language 3 (4)
ASL 4	American Sign Language (4)
FREN 1	Elementary French (5)
FREN 2	Elementary French (5)
FREN 3	Intermediate French (3)
FREN 4	Intermediate French (3)
GERM 1	Elementary German (5)
GERM 2	Elementary German (5)
JAPN 1	Elementary Japanese (5)
JAPN 2	Elementary Japanese (5)
JAPN 3	Intermediate Japanese (5)
JAPN 4	Intermediate Japanese (5)
SPAN 1	Elementary Spanish (5)
SPAN 2	Elementary Spanish (5)
SPAN 3	Intermediate Spanish (3)
SPAN 4	Intermediate Spanish (3)

Select the remaining 0 – 8 units from:

Any course not used above

ASL 1L	American Sign Language 1 Skill-Building Lab (1)
ASL 2L	American Sign Language 2 Skill-Building Lab (1)
ENGL 10A	World Literature (to 1650) (3)
ENGL 10B	World Literature (after 1650) (3)
ENGL 25	Linguistics (3)
JAPN 19	Japanese Conversation 1 (2)
JAPN 20	Japanese Conversation 2 (2)
SPAN 19	Spanish Conversation and Culture (3)
SPAN 20	Spanish Conversation and Culture II (3)

4/23/14

Associate of Arts Degree – Music (See main Degree and Certificate listings later in this Chapter)

Designed for the student planning on transferring to a four-year college or university. Students complete the CSU or IGETC general education pattern and the "Core Courses" electives to total a minimum of 60 transferrable units.

REQUIREMENTS:

- Unit Requirement:** Minimum of 60 transferrable semester units, courses numbered 1-99 at Shasta College. *Note: Please see a counselor to ensure that all of your units are transferrable since there are some exceptions to this rule.*
- Scholarship Requirement:** An overall grade point average (GPA) of not less than 2.0 in all transferrable coursework. While a minimum of 2.0 is required for this degree, some majors or transfer institutions may require a higher GPA. Please consult with a counselor for more information.
- Residence Requirement:** The last twelve (12) semester units of the sixty (60) semester units must be completed in residence at Shasta College immediately prior to graduation or a minimum of forty-eight (48) semester units must have been completed in residence at Shasta College if the student is not in attendance at the time of qualification for graduation.
- Course Requirements:**
 - Major Field of Study: All courses in the major must be completed with a grade of "C" or higher.
 - General Education: Certified completion of the California State University General Education (CSU GE); OR the Intersegmental General Education Transfer Curriculum (IGETC). *Note: If completing IGETC all courses must be completed with a grade of "C" or higher.*
 - Advanced Placement (AP) examination credit can be used to satisfy both CSU GE and IGETC.
 - Credit through the College Level Examination Program (CLEP) can be used to satisfy CSU GE. *Note: The University of California does not accept credit awarded through CLEP.*

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AA Degree – Music Requirements (continued):

5. **Competency Requirements:**

- a. English Composition, Critical Thinking, and Quantitative Reasoning courses must be completed with a grade of “C” or higher. *Note: If completing the CSU GE pattern you must also complete an Oral Communication course with a grade of “C” or higher.*
- b. Multicultural Requirement: Courses in the Multicultural requirement area contain perspectives on people from other cultures and backgrounds as well as an examination of the contributions of non-Western cultures, or the intersection of culture with race, ethnicity, gender, class or other important social categories, such as religion. After successful completion of a course from this area, a student will be able to summarize various ethnic, racial, religious, gender, traditions, class and other group perspectives as well as their similarities and differences.

ADJU 24	CMST 20	GERM 1, 2	PSYC 20, 41
ANTH 2, 14, 25	ECE 28	HIST 2, 3, 25, 35, 36, 38	SOC 25, 30
ART 4	ENGL 10A, 10B, 18, 20, 24	JAPN 1, 2, 3, 4	SPAN 1, 2, 3, 4
ASL 1, 2, 3, 4	FREN 1, 2, 3, 4	MUS 14	
CHIN 1	GEOG 1B, 7, 8	POLS 20	

- c. Computer Literacy Competency Requirement: To earn an associate degree at Shasta College students must demonstrate computer literacy in one of the following ways:
 - CIS 1 Computer Literacy with a grade of C or better.
 - AGNR 52 Computers in Agriculture and Natural Resources with a grade of C or better.
 - Pass the Shasta College computer literacy exam. Contact the Assessment Office for more information.
 - Receive credit for CIS 1 through an articulated high school course. Check with your high school or the Shasta College counseling center for more information.
 - Possess IC³ certification.
 - Receive a score of 50 or higher on the CLEP Information Systems and Computer Applications exam.
 - Document completion of a computer literacy requirement at another college.
 - Minimum of three units to include the coursework options listed below with a grade of C or better:
 - OAS 91 (Word) or OAS 51 (Introduction to Keyboarding and Word); and any 2 units from the following: CIS 20 (Access), OAS 10 (Excel), OAS 80 (Outlook), or OAS 94 (PowerPoint).
 - Note: MOS or MCAS certification will substitute for the equivalent software class.

Associate of Science Degree (See main Degree and Certificate listings later in this Chapter)

Designed for the student planning on transferring to a four-year college or university. Students complete the CSU or IGETC general education pattern and the “Core Courses” electives to total a minimum of 60 transferrable units. Shasta College offers the following AS Transfer Degrees:

Agriculture – Ag Business

Agriculture – Environmental Horticulture

Agriculture – Sustainable Agriculture

REQUIREMENTS:

1. **Unit Requirement:** Minimum of 60 transferrable semester units, courses numbered 1-99 at Shasta College.
2. **Scholarship Requirement:** An overall grade point average (GPA) of not less than 2.0 in all transferrable coursework. While a minimum of 2.0 is required for this degree, some majors or transfer institutions may require a higher GPA. Please consult with a counselor for more information.
3. **Residence Requirement:** The last twelve (12) semester units of the sixty (60) semester units must be completed in residence at Shasta College immediately prior to graduation or a minimum of forty-eight (48) semester units must have been completed in residence at Shasta College if the student is not in attendance at the time of qualification for graduation.
4. **Course Requirements:**
 - a. Major Field of Study: All courses in the major must be completed with a grade of “C” or higher.
 - b. General Education: Certified completion of the California State University General Education (CSU GE).
 - i. Advanced Placement (AP) examination credit can be used to satisfy CSU GE.
 - ii. Credit through the College Level Examination Program (CLEP) can be used to satisfy CSU GE. Note: The University of California does not accept credit awarded through CLEP.
5. **Competency Requirements:**
 - a. Oral Communication, English Composition, Critical Thinking, and Quantitative Reasoning courses must be completed with a grade of “C” or higher.
 - b. Multicultural Requirement: Courses in the Multicultural requirement area contain perspectives on people from other cultures and backgrounds as well as an examination of the contributions of non-Western cultures, or the intersection of culture with race, ethnicity, gender, class or other important social categories, such as religion. After successful completion of a course from this area, a student will be able to summarize various ethnic, racial, religious, gender, traditions, class and other group perspectives as well as their similarities and differences.

ADJU 24	CMST 20	GERM 1, 2	PSYC 20, 41
ANTH 2, 14, 25	ECE 28	HIST 2, 3, 25, 35, 36, 38	SOC 25, 30
ART 4	ENGL 10A, 10B, 18, 20, 24	JAPN 1, 2, 3, 4	SPAN 1, 2, 3, 4
ASL 1, 2, 3, 4	FREN 1, 2, 3, 4	MUS 14	
CHIN 1	GEOG 1B, 7, 8	POLS 20	

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AS Degree Requirements (continued):

- c. Computer Literacy Competency Requirement: To earn an associate degree at Shasta College students must demonstrate computer literacy in one of the following ways:
- CIS 1 Computer Literacy with a grade of C or better.
 - AGNR 52 Computers in Agriculture and Natural Resources with a grade of C or better.
 - Pass the Shasta College computer literacy exam. Contact the Assessment Office for more information.
 - Receive credit for CIS 1 through an articulated high school course. Check with your high school or the Shasta College counseling center for more information.
 - Possess IC³ certification.
 - Receive a score of 50 or higher on the CLEP Information Systems and Computer Applications exam.
 - Document completion of a computer literacy requirement at another college.
 - Minimum of three units to include the coursework options listed below with a grade of C or better:
 - OAS 91 (Word) or OAS 51 (Introduction to Keyboarding and Word); and any 2 units from the following: CIS 20 (Access), OAS 10 (Excel), OAS 80 (Outlook), or OAS 94 (PowerPoint).
 - Note: MOS or MCAS certification will substitute for the equivalent software class.

NON-TRANSFER DEGREES

The associate degrees for non-transfer are designed for the student whose immediate goal is to seek out employment after completion of the degree, **not** to transfer to a four-year college or university.

Associate of Arts Degree – Art and Theatre Arts (See main Degree and Certificate listings later in this Chapter)

Designed for students desiring a two-year degree to prepare to enter the workforce or continue in their current career. Students complete the Associate Degree-General Education, the “Core” courses in their major, and 60 units of coursework at the associate and transfer level. Students are advised to consult a counselor before choosing the existing Theatre Arts Degree.

REQUIREMENTS:

1. **Unit Requirement:** Minimum of 60 semester units of coursework, numbered 1-199 at Shasta College.
2. **Scholarship Requirement:** An overall grade point average (GPA) of not less than 2.0 based on all college work attempted.
3. **Residence Requirement:** The last twelve (12) semester units of the sixty (60) semester units must be completed in residence at Shasta College immediately prior to graduation or a minimum of forty-eight (48) semester units must have been completed in residence at Shasta College if the student is not in attendance at the time of qualification for graduation.
4. **Course Requirements:**
 - a. Major Field of Study: All courses in the major must be completed with a grade of “C” or higher.
 - b. General Education: 21-39 units. Select Associate Degree General Education, California State University General Education (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC). *Note: Any student completing the CSU GE or IGETC requirements will also have met the Associate Degree General Education requirements for this degree.*
 - i. Advanced Placement (AP) examination credit can be used to satisfy Associate Degree General Education, CSU GE, or IGETC.
 - ii. Credit through the College Level Examination Program (CLEP) can be used to satisfy Associate Degree General Education or CSU GE. *Note: The University of California does not accept credit awarded through CLEP.*
5. **Competency Requirements:**
 - a. Competence in reading and in written expression is demonstrated by a grade of “C” or higher in one of the following courses. *Note: Some degrees require completion of a specific course.*

ENGL 1A College Composition	BUAD 66 Business Communications
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 - b. Competence in mathematics is demonstrated by one of the following criteria:
 1. A grade of “C” or higher in one of the following courses or a mathematics course numbered from 1-99. *Note: Some degrees require completion of a specific course.*

MATH 102 Intermediate Algebra	MATH 110 Essential Math
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 2. Performance at or above the level specified below on the following examinations:

<u>Examination</u>	<u>Score</u>
College Board Advanced Placement Math Test (CALC or STAT)	3
Scholastic Aptitude Test – Mathematics (SAT-M)	520 (Beginning 4/95)
American College Testing (ACT) – Math	23
COMPASS Algebra Test	54
Accuplacer – College Level	45

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Associate of Arts Degree Requirements (continued):

- c. Multicultural Requirement: Courses in the Multicultural requirement area contain perspectives on people from other cultures and backgrounds as well as an examination of the contributions of non-Western cultures, or the intersection of culture with race, ethnicity, gender, class or other important social categories, such as religion. After successful completion of a course from this area, a student will be able to summarize various ethnic, racial, religious, gender, traditions, class and other group perspectives as well as their similarities and differences.

ADJU 24	ECE 28	JAPN 1, 2, 3, 4
ANTH 2, 14, 25	ENGL 10A, 10B, 18, 20, 24	MUS 14
ART 4	FREN 1, 2, 3, 4	POLS 20
ASL 1, 2, 3, 4	GEOG 1B, 7, 8	PSYC 20, 41
CHIN 1	GERM 1, 2	SOC 25, 30
CMST 20	HIST 2, 3, 25, 35, 36, 38	SPAN 1, 2, 3, 4

- d. Computer Literacy Competency Requirement: To earn an associate degree at Shasta College students must demonstrate computer literacy in one of the following ways:

- CIS 1 Computer Literacy with a grade of C or better.
- AGNR 52 Computers in Agriculture and Natural Resources with a grade of C or better.
- Pass the Shasta College computer literacy exam. Contact the Assessment Office for more information.
- Receive credit for CIS 1 through an articulated high school course. Check with your high school or the Shasta College counseling center for more information.
- Possess IC³ certification.
- Receive a score of 50 or higher on the CLEP Information Systems and Computer Applications exam.
- Document completion of a computer literacy requirement at another college.
- Minimum of three units to include the coursework options listed below with a grade of C or better:

OAS 91 (Word) or OAS 51 (Introduction to Keyboarding and Word); and any 2 units from the following:
CIS 20 (Access), OAS 10 (Excel), OAS 80 (Outlook), or OAS 94 (PowerPoint).

Note: MOS or MCAS certification will substitute for the equivalent software class.

Associate of Science General Studies Degree

Designed for students desiring a two-year degree to prepare to enter the workforce or continue in their current career. The choice of emphasis allows the student to explore an area of interest while providing sufficient depth in a field of knowledge to contribute to lifelong interest. Students complete the Associate Degree-General Education, one emphasis area, and electives to total a minimum of 60 units of coursework at the associate and transfer level.

Agricultural Trades	Health
Business – Basic Business	Human Development
Climatological/Meteorological Studies	Humanities
Coastal Oceanographic Studies	Industrial Technologies
EMS – Emergency Medical Response	Language Arts
Fire – Fire Investigation	Natural Sciences
Fire – Fire Service Command, Company Officer	Office and Computer Technologies
Fire – Wildland Fire Behavior	Public Safety and Services
Food/Beverage/Lodging Management	Social Sciences
Geologic Field Studies	

REQUIREMENTS:

1. **Unit Requirement:** Minimum of 60 semester units, courses numbered 1-199 at Shasta College.
2. **Scholarship Requirement:** An overall grade point average (GPA) of not less than 2.0 based on all college work attempted.
3. **Residence Requirement:** The last twelve (12) semester units of the sixty (60) semester units must be completed in residence at Shasta College immediately prior to graduation or a minimum of forty-eight (48) semester units must have been completed in residence at Shasta College if the student is not in attendance at the time of qualification for graduation.
4. **Course Requirements:**
 - a. Major Field of Study: Select a General Studies emphasis area. All courses in the emphasis area must be completed with a grade of “C” or higher.
 - b. General Education: 21-39 units. Select Associate Degree General Education, California State University General Education (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC). *Note: Any student completing the CSU GE or IGETC requirements will also have met the Associate Degree General Education requirements for this degree.*
 - i. Advanced Placement (AP) examination credit can be used to satisfy Associate Degree General Educ., CSU GE, or IGETC.
 - ii. Credit through the College Level Examination Program (CLEP) can be used to satisfy Associate Degree General Education or CSU GE. *Note: The University of California does not accept credit awarded through CLEP.*

Continued on next page...

Associate of Science General Studies Degree (continued):

5. **Competency Requirements:**

- a. Competence in reading and in written expression is demonstrated by a grade of “C” or higher in one of the following courses. *Note: Some degrees require completion of a specific course.*

ENGL 1A College Composition BUAD 66 Business Communications

- b. Competence in mathematics is demonstrated by one of the following criteria:

1. A grade of “C” or higher in one of the following courses or a mathematics course numbered from 1-99. *Note: Some degrees require completion of a specific course.*

MATH 102 Intermediate Algebra MATH 110 Essential Math

2. Performance at or above the level specified below on the following examinations:

<u>Examination</u>	<u>Score</u>
College Board Advanced Placement Math Test (CALC or STAT)	3
Scholastic Aptitude Test – Mathematics (SAT-M)	520 (Beginning 4/95)
American College Testing (ACT) – Math	23
COMPASS Algebra Test	54
Accuplacer – College Level	45

- c. Multicultural Requirement: Courses in the Multicultural requirement area contain perspectives on people from other cultures and backgrounds as well as an examination of the contributions of non-Western cultures, or the intersection of culture with race, ethnicity, gender, class or other important social categories, such as religion. After successful completion of a course from this area, a student will be able to summarize various ethnic, racial, religious, gender, traditions, class and other group perspectives as well as their similarities and differences.

ADJU 24	ECE 28	JAPN 1, 2, 3, 4
ANTH 2, 14, 25	ENGL 10A, 10B, 18, 20, 24	MUS 14
ART 4	FREN 1, 2, 3, 4	POLS 20
ASL 1, 2, 3, 4	GEOG 1B, 7, 8	PSYC 20, 41
CHIN 1	GERM 1, 2	SOC 25, 30
CMST 20	HIST 2, 3, 25, 35, 36, 38	SPAN 1, 2, 3, 4

- d. Computer Literacy Competency Requirement: To earn an associate degree at Shasta College students must demonstrate computer literacy in one of the following ways:

- CIS 1 Computer Literacy with a grade of C or better.
- AGNR 52 Computers in Agriculture and Natural Resources with a grade of C or better.
- Pass the Shasta College computer literacy exam. Contact the Assessment Office for more information.
- Receive credit for CIS 1 through an articulated high school course. Check with your high school or the Shasta College counseling center for more information.
- Possess IC³ certification.
- Receive a score of 50 or higher on the CLEP Information Systems and Computer Applications exam.
- Document completion of a computer literacy requirement at another college.
- Minimum of three units to include the coursework options listed below with a grade of C or better:

OAS 91 (Word) or OAS 51 (Introduction to Keyboarding and Word); and any 2 units from the following:
CIS 20 (Access), OAS 10 (Excel), OAS 80 (Outlook), or OAS 94 (PowerPoint).

Note: MOS or MCAS certification will substitute for the equivalent software class.

Associate of Science General Studies Areas of Emphasis:

General Studies: Agriculture Trades – 18 units

SC Program: AS.1496

The Agriculture emphasis allows students to explore all areas of agriculture, including animal science, agriculture business, horticulture, horse practices, sustainable or holistic agriculture, mechanical equipment, natural resources, veterinary practices, and viticulture.

Choose 18 units from at least three of the following areas:

AG	1, 6, 9A, 58
AGAS	10, 11, 15, 19, 30
AGAB	51, 53, 54
AGEH	22, 23, 26, 27, 28, 29, 31, 31.1, 31.2, 31.3, 33, 34, 35, 36, 38, 39, 40, 41, 44, 45, 46, 60, 71, 72, 122, 125, 130
AGEQ	12, 13, 14, 21, 109, 111, 113

AGMA	42, 44
AGNR	1, 6, 11, 12, 50, 51, 52, 53, 55, 60, 61, 64, 65, 66A, 69, 70, 83, 173, 174, 176
AGPS	20, 24, 25, 126
AGSA	50, 56
AGVETT	16
AGVIT	80, 81

General Studies: Business – Basic Business – 18 units

SC Program: AS.1497

The Basic Business emphasis allows students to explore many areas of business, including accounting, business law, management, marketing, real estate, and specialized areas such as hospitality, and casino management.

Choose 3-4 units from the following:

ACCT 2	Introduction to Financial Accounting (4)
ACCT 101	Basic Accounting I (3)

Choose 9-14 units from the following:

BUAD 6	Business Law I (3)
BUAD 8	Business Law II (3)
BUAD 10	Introduction to Business (3)
BUAD 12	International Business (3)
BUAD 15	Business and Society (3)
BUAD 40	Entrepreneurship and Small Business (3)
BUAD 41	Leadership and Supervision (3)
BUAD 42	Financing a Small Business (3)
BUAD 44	Investments (3)
BUAD 45	Human Relations on the Job (3)
BUAD 66	Business Communications (3)
BUAD 71	Introduction to e-Commerce (1)
BUAD 72	e-Commerce Marketing (1)
BUAD 80	Principles of Customer Services (3)
BUAD 91	Principles of Management (3)
BUAD 106	Business Mathematics (3)
BUAD 120	Starting a Small Business – The Entrepreneur (1)

Choose the remaining 0-6 units from the following:

BUAD	76, 77, 176
CIS	1
DSS	10, 63
ECON	1A, 1B
HOSP	10, 20, 35, 40, 45, 50, 60, 65

General Studies: Climatological and Meteorological Studies – 18 units

SC Program: AS.1513

Many natural processes studied across a broad spectrum of scientific disciplines influence climate and weather on Earth. This degree plan reflects that fact by incorporating multidisciplinary courses such as Earth System Science and Oceanography while being centered on a core of physics, meteorology, and global climate. Electives in the plan can support spatial associations, environmental considerations, geologic and astronomical influences, as well as computer basics and statistics, depending on student interests. At least one chemistry and one physics course are recommended for the degree, as well as the completion of MATH 102 for the GE pattern.

Complete the following 10 units:

ESCI 14	Meteorology (4)
ESCI 17	Earth System Sciences (3)
ESCI 18	Global climate: Past, Present and Future (3)

Choose 4 units from the following:

AGNR 60	Environmental Science (3) AND
AGNR 61	Environmental Science Lab (1)
ESCI 10	Environmental Geology (4)
ESCI 15	Oceanography (4)
PHYS 2B	General College Physics (4)

Choose 4 units from the following:

AGNR 1	Introduction to Natural Resources (3)
AGNR 83	Introduction to Global Positioning Systems (1)
ASTR 1	Astronomy (3)
CIS 1	Computer Literacy Workshop (3)
GEOG10	Introduction to Geographic Information Systems (3)
MATH 14	Introduction to Statistics (4)

General Studies: Coastal Oceanographic Studies – 20 units

SC Program: AS.1512

This degree is designed to focus the student's studies on coastal marine environments. The plan includes core and supporting classes that provide the background necessary to apply basic scientific principles in support of field- and lab-based coastal research including data collection and analysis, various scientific methodologies in the field and in the lab, relevant modern scientific theory, and scientific problem solving. At least one chemistry and one physics course are recommended for the degree, as well as the completion of MATH 102 for the GE pattern.

Complete the following 10 units:

ESCI 1	Physical Geology (4)
ESCI 15	Oceanography (4)
ESCI 16	Coastal Oceanographic Field Studies (2)

Choose 3 units from the following:

BIOL 10	General Biology (3)
BIOL 12	Field Biology (3)
ESCI 17	Earth System Science (3)
NHIS 15	Natural History (3)

Choose 4 units from the following:

AGNR 60	Environmental Science (3) AND
AGNR 61	Environmental Science Lab (1)
BIOL 1*	Principles of Biology (4)
ESCI 10	Environmental Geology (4)
PHYS 2B	General College Physics (4)

*Recommended

Choose 3 units from the following:

AGNR 1	Introduction to Natural Resources (3)
CIS 1	Computer Literacy Workshop (3)
GEOG 5	Digital Plant: GIS and Society (3)
GEOG 10	Introduction to Geographic Information Systems (3)

General Studies: EMS – Emergency Medical Response – 18 Units

SC Program: AS.1508

This degree is directed at students who will be working as Emergency Medical Technicians. Additionally, this degree could be used as a general preparation program for those students who will be attending a Paramedic certification program.

Complete the following course:

FAID 175	Emergency Medical Technician 1 Basic (5)
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Choose at least 13 units from the list below:

ANAT 1	Human Anatomy (5)
BIOL 5	Introduction to Human Biology (3)
BIOL 6	Intro to Human Biology Laboratory (1)
FAID 132	Emergency Medical Responder (EMR) (2)
FAID 133	Certification CPR for the Professional Rescuer (.5)
FIRS 104	Firefighter I Academy (21)
FIRS 120	Incident Command System ICS-200 (1)
FSS 25	Nutrition (3)
MICR 1	Microbiology (5)
PHY 1	Physiology (5)

General Studies: Fire – Fire Investigation – 18 Units

SC Program: AS.1507

While available to anyone, this degree is designed for students who intend on working as fire investigators. Additionally, this degree is applicable for students who are, or will be working in Fire Prevention, Plans Checking, or similar functions within a municipal fire department. Once a student has completed this degree, it is hoped that they will continue their education and pursue a transfer level AA degree with a final target being undergraduate and graduate degrees in Chemistry, Physics, Engineering, Systems Analysis, or similar disciplines.

Complete the following 13 units:

FIRS 71	Fire Behavior and Combustion (3)
FIRS 74	Fire Protection Equipment and Systems (3)
FIRS 86	Building Construction for Fire Protection (3)
FIRS 189	Fire Investigation 1A (2)
FIRS 191	Fire Investigation 1B (2)

Choose 5 units from the list below:

ADJU 16	Legal Aspects of Evidence (3)
ADJU 20	Principles of Investigation (3)
CHEM 2A	Introduction to Chemistry (5)
FTWL 101	Wildland Fire Behavior (3)
FTWO 112	Advanced Firefighter Training (.5)
FTWP 114	Wildfire Origin and Cause Determination (1.5)

General Studies: Fire – Fire Service Command, Company Officer – 18 Units

SC Program: AS.1506

While available to anyone, this degree is designed for students who have been working as Firefighter/Engineers (paid or volunteer) and intend on becoming Engine Captains. Additionally, this degree supports wildland firefighters who are, or will be working at the Crew/Engine/Dozer/Squad Boss levels, or similar supervisory positions. Once a student has completed this degree, it is hoped that they will continue their education and pursue a transfer level AA degree with a final target being undergraduate and graduate degrees in team development, group dynamics/psychology, fire administration or similar disciplines.

Complete the following 4 units:

FIRS 85	Fire Command 1A (2)
FIRS 87	Fire Command 1B (2)

Choose 14 units from the list below:

FIRS 100	Basic Fire Company Operations (2)
FIRS 108	Firefighter II Academy (5)
FIRS 135	Intermediate Incident Command System I-300 (1.5)
FIRS 136	Advanced Incident Command System I-400 (1)
FTWL 102	Wildland Firefighter Safety and Survival (3)
FTWL 103	Wildland Fire Operations (3)
FTWO 114	Initial Attack Incident Commander Type 4 (1.5)
FTWO 121	Crew Boss S-230 (1.5)
FTWO 135	Task Force/Strike Team Leader S-330 (1.5)

General Studies: Fire – Wildland Fire Behavior – 18 Units

SC Program: AS.1509

While available to anyone, this degree is designed for students who have been working as wildland firefighters and intend on working within the Plans Section of the Incident Command System (specifically the Situation Unit and Fire Behavior positions). Once a student has completed this degree, it is hoped that they will continue their education and pursue a transfer level AA degree with a final target being undergraduate and graduate degrees in Meteorology, Physics, or similar disciplines.

Complete the following 4.5 units:

FTWO 113	Introduction to Wildland Fire Behavior S-190 (.5)
FTWO 132	Intermediate Wildland Fire Behavior S-290 (2)
FTWO 144	Intro. to Wildland Fire Behavior Calculations (2)

Choose 13.5 units from the list below:

CHEM	maximum of 3 units
ESCI 14	Meteorology (4)
FIRS 101	Fire Technology Career Placement (1)
FTWL 101	Wildland Fire Behavior (3)
FTWL 103	Wildland Fire Operations (3)
FTWO 111	Firefighter Training (2)
FTWO 112	Advanced Firefighter Training (2)
FTWO 128	Field Observer (1.5)
MATH 110	Essential Math (or equivalent) (3)

General Studies: Food and Beverage and Lodging Management – 18 units

SC Program: AS.1517

The Food and Beverage and Lodging management emphasis allows students to explore many areas of the hospitality industry, including culinary arts, restaurant management, casino management, and beverage management.

Choose 12 -18 units from the following courses:

CULA	45, 46, 48, 49, 50, 55, 59, 60, 65, 66, 73, 74, 75, 76, 78, 80, 88, 159, 161, 172
DSS	10, 63
HOSP	10, 20, 35, 40, 45, 50, 60, 65

Choose the remaining 0 – 6 units from the following:

ACCT	2, 4, 101, 102, 103, 104, 194
BUAD	6, 8, 10, 40, 42, 66, 71, 72, 80, 81-90, 91, 106, 120, 166
CIS	1, 83, 86
OAS	10, 11, 12

General Studies: Geologic Field Studies – 20 units

SC Program: AS.1511

This degree plan places a field emphasis around classes that provide the background necessary to apply basic scientific principles centered on the geological sciences. Classes support modern geologic theory and its application to field problems as well as lab experiences that produce a foundation for successful fieldwork. At least one chemistry and one physics course are recommended for the degree, as well as the completion of MATH 102 for the GE pattern.

Complete the following 6 units:

ESCI 1	Physical Geology (4)
ESCI 23	Introduction to Geology in the Field (2)

Choose one 4-unit course from the list below:

ESCI 2	Historical Geology (4)
ESCI 6	Ancient Life (4)
ESCI 7	Introduction to the Geology of California (4)
ESCI 10	Environmental Geology (4)

Choose one 3-unit course from the list below:

ESCI 9	Geologic Hazards (3)
ESCI 11	Economic Geology (3)

Continued on next page...

General Studies: Geologic Field Studies Emphasis (continued):

Choose one combination of the following Earth Science field courses to total 4 units:

Two 30-series ESCI courses: 32, 33, 34, 35, 36, 37, 38 (1.5 units each)
AND

One 40 series ESCI course: 42, 43, 44, 45, 47 (1 unit each)

OR

ESCI 26 or ESCI 27

AND

Two 40 -series ESCI courses: 42, 43, 44, 45, 47 (1 unit each)

Choose 3 units from the following list:

AGNR 1	Introduction to Natural Resources (3)
CIS 1	Computer Literacy Workshop (3)
GEOG 5	Digital Planet: GIS and Society (3)
GEOG 10	Introduction to Geographic Information Systems (3)
NHIS 15	Natural History (3)

General Studies: Health – 18 units

SC Program: AS.1499

The Health emphasis allows students to explore health-related topics such as nutrition, physical fitness, substance abuse, wellness, and medical-related areas in medical terminology, first aid, EMT training. Students who have completed LVN and CNA certificate programs can use this emphasis to complete an associate degree.

Choose 18 units from at least two areas*:

DAN (activity)* 10,15,20,21,30,31,40,41,50

FAID 130, 132, 133, 175, 178

FSS 25

HLTH 1, 2, 3

HEOC 10, 100, 130, 131, 160, 181

KINES 1, 2

OAS 110

PE 4, 35, 36

PE (activity)* 11, 12A, 12B, 12C, 13, 14, 15, 16, 17, 20, 23, 26, 30A, 30B, 30C, 31, 32, 37, 51A, 51B, 51C, 60, 62, 69, 70A, 70B, 70C, 71, 72, 73, 74, 75

PEAT (activity)* 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18,

19, 20, 21, 22, 23, 24, 25, 26, 29, 30,

VOCN 160, 161, 162

*Limit of 6 units from Dance, PE activity, and Athletics courses combined.

General Studies: Human Development – 18 units

SC Program: AS.1501

The Human Development emphasis permits students to explore the areas of early childhood education, teacher preparation, and family studies in order to develop foundational concepts and skills in working with people of all ages. Students will recognize that each human life, characterized by multiple influences and interrelated domains, is worthy of study, both individually and within a variety of contexts.

Choose 18 units from at least two of the following areas:

ECE 1, 2, 3, 4, 6, 7, 8, 9, 10, 12, 14, 15, 16, 17, 20, 22, 24, 26, 27, 28, 30, 40, 50, 51, 52

EDUC 1

EDTE 51, 52, 61, 62, 71, 72, 73

FSS 10, 12, 16, 18, 25, 26, 27, 46, 60

General Studies: Humanities – 18 units

SC Program: AS.1515

The Humanities emphasis permits students to explore the arts, ideas, values, and cultural expressions of the world's peoples as a foundation for lifelong learning or as an introduction to fine arts, literature, music, theater, communication, journalism, and world languages.

Choose 18 units from at least three of the following areas (with no more than 9 units of foreign language):

ART 1, 2, 3, 4, 6,12, 13, 15, 16, 17, 21A, 21B, 23, 26A, 26B, 29A, 29B, 31A, 31B, 35A, 35B, 45, 46, 50A, 55A, 55B, 57, 60A, 60B, 60C, 80A, 80B, 110, 121, 122, 123, 124, 125, 126

ASL 1, 1L, 2 2L, 3, 4

CMST 10, 20, 30, 40, 54, 60

DAN (Up to 3 units of Dance courses may apply)

ENGL 1B, 1C, 10AB, 11AB, 12, 13AB, 14, 15, 16, 17, 18, 19, 20, 24, 25, 31, 33, 36, 91

FREN 1, 2, 3, 4

GERM 1, 2

HUM 2, 4, 70

JAPN 1, 2, 3, 4, 19, 20

JOUR 21, 24, 27, 29

MUS 1, 2, 3, 4, 5, 10, 11, 14, 21A, 22A, 22B, 25A, 29, 30, 31, 33, 35, 40, 41, 42, 43, 44, 46, 47

PHIL 6, 7, 8

SPAN 1, 2, 3, 4, 19, 20, 151

THTR 1, 5, 8, 9, 12, 13, 23, 26, 29, 30, 31, 34, 41, 42, 50, 51, 52, 60, 70, 74, 81, 153

General Studies: Industrial Technologies – 18 units

SC Program: AS.1500

The Industrial Technology emphasis permits the student to explore the trades and acquire skills in a variety of technical fields: automotive and diesel technology, construction, computerized drafting, computer electronics, heavy equipment operation, aviation ground school, machine tooling, and welding.

Choose 18 units from at least three of the following areas:

AGMA 42, 44

AUTO 1, 10, 20, 21, 130, 131, 147, 150, 161, 162, 163, 180, 181

CONS 45, 46, 47, 48, 52, 53, 54, 55, 56, 84, 148, 149, 150, 160, 161, 178

DIES 48, 49, 158, 160, 161, 162, 164, 166, 170

ENER 50, 101, 102, 151

ENGR 1A, 1B, 2, 22, 24, 27, 29, 30, 31, 32, 33, 37, 38, 64, 120

INDE 1, 101, 102, 138

WELD 56, 70, 73, 118, 170, 171, 174, 175 176, 178, 182, 184, 186, 188

WTT 177, 180, 181, 183, 184, 186

General Studies: Language Arts – 18 units

SC Program: AS.1502

The emphasis in language arts allows students to explore the areas of both written and spoken English language, literature, and world languages.

Choose 18 units from at least two areas:

CMST 10, 20, 30, 40, 54, 60

ENGL 1B, 1C, 10AB, 11AB, 12, 13AB, 14, 15, 16, 17, 18, 19, 20, 24, 25, 31, 33, 36, 91

JOUR 21, 27, 29

Foreign Languages:

ASL 1, 1L, 2, 2L, 3, 4

FREN 1, 2, 3, 4

GERM 1, 2

JAPN 1, 2, 3, 4, 19, 20

SPAN 1, 2, 3, 4, 19, 20

General Studies: Natural Sciences – 18 units

SC Program: AS.1514

This emphasis allows the student to explore the broad areas of life and physical sciences as a foundation for lifelong learning.

Choose 18 units from at least four of the following areas:

Agriculture:

AGAS	19
AGEH	33
AGNR	60
AGPS	20
ANAT	1
ASTR	1
BIOL	1,5,6,10,11,12
BOT	1, 50, 52
CHEM	1A, 1B, 2A, 2B, 6, 10, 11, 16, 26, 70, 70A, 71, 71A,
ESCI	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18,
	23, 26, 27, 32, 33, 34, 35, 36, 37, 38, 42, 43, 44, 45,
	46
FSS	25
GEOG	1A, 1AL, 10, 21, 24, 25
MICR	1
NHIS	15, 65, 105
PHSC	1
PHY	1
PHYS	2A, 2B, 4A, 4B, 4C
ZOOL	1, 15, 63

General Studies: Office and Computer Technologies – 18 units

SC Program: AS.1498

The office and computer technologies emphasis allows students to explore many areas of office management, and computer and information management, including clerical skills, legal assisting, medical coding and billing, medical transcription, Computer Networking, A+, and Web design.

Choose 12 – 18 units from the following areas:

CIS	1, 2, 20, 21, 23, 31, 32, 33, 34, 39, 50, 51, 52, 53, 54,
	55, 57, 60, 61, 62, 63, 64, 71, 72, 73, 83, 86, 90, 92
OAS	10, 11, 12, 30, 51, 52, 53, 64, 80, 84, 91, 92, 93, 94,
	112, 113, 114, 152, 158, 160, 166, 171

Choose 0 – 6 additional units:

ACCT	101, 102, 103, 104
BUAD	10, 45, 66, 71, 72

General Studies: Public Safety and Services – 18 units

SC Program: AS.1503

This emphasis permits the student to explore courses in the field of public safety and for current law enforcement personnel to earn an associate degree for advancement in the field.

Complete the following course:

ADJU 10 Introduction to Administration of Justice (3)

Choose the remaining 15 units from the following:

ADJU 10, 11, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26, 30, 40, 41, 42, 100, 102, 106

General Studies: Social Sciences – 18 units

SC Program: AS.1516

This emphasis allows students to explore the social and behavioral sciences as a foundation for lifelong learning, or as introduction to the related fields of anthropology, psychology, sociology, economics, geography, history, and political science.

Choose 18 units from at least three of the following areas:

ANTH	1, 2, 5, 14, 25
ARCH	3, 4A, 5A
ECE	1, 2, 9
ECON	1A, 1B
FSS	16, 18
GEOG	1A, 1AL, 1B, 2A, 2B, 5, 7, 8
HIST	1A, 1B, 2, 3, 17A, 17B, 25, 35, 36, 38, 40, 55, 57
POLS	1, 2, 20, 25
PSYC	1A, 5, 14, 15, 16, 17, 20, 41, 46
SOC	1, 2, 15, 22, 25, 70

4/29/14

Associate of Science Degree (See the main Degree and Certificate listings later in this Chapter)

The AS degree is primarily oriented to technical, science, and occupational programs. It is intended for the student who plans to enter the workforce after completion of the two-year degree. Students complete the Associate Degree-General Education, the courses in their major, and electives totaling a minimum of 60 units of coursework at the associate and transfer level.

Administration of Justice	Dental Hygiene
Agriculture-Equine Science	Diesel Technology
Agriculture-Forest Science and Technology	Early Childhood Education
Agriculture-Horticulture and Landscaping	Family Studies
Agriculture-Natural Resources	Fire Technology
Applied Geographic Information Systems	Hospitality Management
Automotive Technology	Culinary Arts Concentration
Business Administration	Hotel/Restaurant Management Concentration
Accounting Concentration	Nursing – Associate Degree Nursing
General Business Concentration	Office Administration
Computer and Information Systems	Administrative Office Professional
Systems Management	Health Information Management
Network Administration	Welding Technology
Construction Technology	

Continued on next page...

Associate of Science Degree Requirements (continued):

REQUIREMENTS:

1. **Unit Requirement:** The majority of degrees require a minimum of 60 semester units of coursework, numbered 1-199 at Shasta College. Refer to your degree for the required number of units.
2. **Scholarship Requirement:** An overall grade point average (GPA) of not less than 2.0 based on all college work attempted.
3. **Residence Requirement:** The last twelve (12) semester units of the sixty (60) semester units must be completed in residence at Shasta College immediately prior to graduation or a minimum of forty-eight (48) semester units must have been completed in residence at Shasta College if the student is not in attendance at the time of qualification for graduation.

4. **Course Requirements:**

- a. Major Field of Study: Select an Associate Degree major. All courses in the major must be completed with a grade of "C" or higher.
- b. General Education: 21-39 units. Select Associate Degree General Education, California State University General Education (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC). *Note: Any student completing the CSU GE or IGETC requirements will also have met the Associate Degree General Education requirements for this degree.*
 - i. Advanced Placement (AP) examination credit can be used to satisfy Associate Degree General Education, CSU GE, or IGETC.
 - ii. Credit through the College Level Examination Program (CLEP) can be used to satisfy Associate Degree General Education or CSU GE. *Note: The University of California does not accept credit awarded through CLEP.*

5. **Competency Requirements:**

- a. Competence in reading and in written expression is demonstrated by a grade of "C" or higher in one of the following courses. *Note: Some degrees require completion of a specific course.*

ENGL 1A College Composition

BUAD 66 Business Communications

- b. Competence in mathematics is demonstrated by one of the following criteria:

1. A grade of "C" or higher in one of the following courses or a mathematics course numbered from 1-99. *Note: Some degrees require completion of a specific course.*

MATH 102 Intermediate Algebra

MATH 110 Essential Math

2. Performance at or above the level specified below on the following examinations:

<u>Examination</u>	<u>Score</u>
College Board Advanced Placement Math Test (CALC or STAT)	3
Scholastic Aptitude Test – Mathematics (SAT-M)	520 (Beginning 4/95)
American College Testing (ACT) – Math	23
COMPASS Algebra Test	54
Accuplacer – College Level	45

- c. Multicultural Requirement: Courses in the Multicultural requirement area contain perspectives on people from other cultures and backgrounds as well as an examination of the contributions of non-Western cultures, or the intersection of culture with race, ethnicity, gender, class or other important social categories, such as religion. After successful completion of a course from this area, a student will be able to summarize various ethnic, racial, religious, gender, traditions, class and other group perspectives as well as their similarities and differences.

ADJU 24

CMST 20

GERM 1, 2

PSYC 20, 41

ANTH 2, 14, 25

ECE 28

HIST 2, 3, 25, 35, 36, 38

SOC 25, 30

ART 4

ENGL 10A, 10B, 18, 20, 24

JAPN 1, 2, 3, 4

SPAN 1, 2, 3,

ASL 1, 2, 3, 4

FREN 1, 2, 3, 4

MUS 14

CHIN 1

GEOG 1B, 7, 8

POLS 20

- d. Computer Literacy Competency Requirement: To earn an associate degree at Shasta College students must demonstrate computer literacy in one of the following ways:

- CIS 1 Computer Literacy with a grade of C or better.
- AGNR 52 Computers in Agriculture and Natural Resources with a grade of C or better.
- Pass the Shasta College computer literacy exam. Contact the Assessment Office for more information.
- Receive credit for CIS 1 through an articulated high school course. Check with your high school or the Shasta College counseling center for more information.
- Possess IC³ certification.
- Receive a score of 50 or higher on the CLEP Information Systems and Computer Applications exam.
- Document completion of a computer literacy requirement at another college.
- Minimum of three units to include the coursework options listed below with a grade of C or better:
 - OAS 91 (Word) or OAS 51 (Introduction to Keyboarding and Word); and any 2 units from the following: CIS 20 (Access), OAS 10 (Excel), OAS 80 (Outlook), or OAS 94 (PowerPoint).
 - Note: MOS or MCAS certification will substitute for the equivalent software class.*

SECOND DEGREE REQUIREMENTS: Check with Admissions and Records Office for specific criteria.

APPLYING FOR YOUR DEGREE: You must apply for your Degree in the Admissions & Records Office two months before the end of the semester in which you plan to complete it.

CATALOG RIGHTS: As long as you maintain continuous attendance at Shasta College, your catalog rights are protected according to the following regulations: You may elect to meet the graduation requirements in effect 1) at the time of initial enrollment or 2) at the semester of graduation, provided you have not had an interruption in attendance of more than two successive semesters. (Summer is not considered a successive semester when not enrolled but will be used to begin enrollment or maintain continuous attendance.) If you are following an earlier version of a program in which your department has discontinued or modified required courses, the department may authorize appropriate substitutions. It is advisable that you make contact with the department as soon as possible so you can accommodate any changes into your ed plan. If while enrolled you declare a new major, you should normally expect to follow the requirements in effect at the time you change your major or in effect when you file for graduation. Whether you choose option 1) or 2) concerning your major or emphasis, you may continue to follow the general education and graduation requirements listed in the catalog at the time of initial enrollment (provided you maintain catalog rights as defined above). While catalog rights hold degree requirements, they do not shield students from changes in prerequisites required in a given course. Prerequisite requirements which students must follow are those stated in course descriptions in the current catalog.

DOUBLE COUNTING: Courses may be double counted for the emphasis, the GE pattern, and/or the Multi-Cultural/Graduation requirement. For the General Studies major, the emphasis and GE pattern must total at least 36 units. For the University Studies major, the emphasis and GE must total at least 45 units.

Note: Students also prepare to transfer to many other majors at four year universities by completing the IGETC or CSU GE certificate and the major preparation courses listed at www.assist.org

COURSE NUMBERING SYSTEM FOR SHASTA COLLEGE:

Shasta College has numbered courses to assist students in scheduling. Refer to the complete course description in the catalog for explanation of the course. Numbering is according to the following system:

- 0-99* Baccalaureate level course. Courses certified by Shasta College as meeting transfer requirements to the California State University System. The U.C. system publishes a list annually that indicates which Shasta College courses are accepted for admission. This list is available in the Transfer Center, Shasta College Admissions Office, and www.assist.org.
- 100-199 Courses, primarily vocational in nature, meeting Associate Degree graduation requirements. Generally not transferable to four-year institutions.
- 200-299 Basic skills courses designed to enable students to succeed in college level work, or pre-collegiate occupational preparation courses. These courses do not transfer or apply to an Associate Degree (Title 5, Section 55002).
- 300-399 Ungraded (adult education) courses designed to meet specific student needs. These courses carry no unit credit.

*Baccalaureate level courses are those commonly taught in a four-year college or university at the freshman & sophomore level.

Shasta College 2014-2015

Associate Degree – General Education

General Education - 21 units (plus a major field of study = 60 units)

The goal of general education is a more well-rounded individual with a broad understanding of the physical universe, people as individuals and as members of society, artistic and cultural expression, written composition, oral communication, analytical thinking, multicultural environments, and perspectives of people from other cultures and backgrounds.

In order to complete the General Education requirements, a student must complete twenty-one (21) units of study. Three units must be completed in each of the following areas: 1, Natural Science; 2, Social and Behavioral Sciences; 3, Humanities; 4-a, Language and Rationality, English Composition; 4-b, Oral Communication; 4c, Analytical Thinking, and 5, Multicultural/Living Skills. A course cannot be counted in more than one area of study with the exception of the #6 Multicultural requirement. A four (4) quarter unit course is 2-2/3 semester units and satisfies an area. Total units must equal 21 or more semester units. The course used to satisfy the Multicultural Requirement may also be used to satisfy one of the other areas if appropriate.

1. NATURAL SCIENCE: Three (3) units required. Courses in the Natural Science GE area examine the physical universe, its life forms and its natural phenomena. After successful completion of a course from this area, a student will be able to use the scientific method to conduct basic experiments, collect, analyze, and evaluate data in a lab setting, or will be able to use scientific inquiry skills related to hypothesis, prediction, assumption, interpretation and evaluation.

AGAS 19 Prin of Animal Sci	BIOL 1 Principles of Biology	CHEM 16 Chem Prob Solv	ESCI 15 Oceanography	PHY 1 Physiology
AGEH 33 Envir Horticulture	BIOL 5 Human Biology	ESCI 1 Phys Geology	ESCI 17 Earth Sys Science	ZOOL 1 Zoology
AGNR 1 Intro to Nat Res	BIOL 10 Gen Biology	ESCI 5 Intro Geology	ESCI 18 Global Climate	
AGNR 60 Envir Science	BIOL 11 Div of Life	ESCI 6 Ancient Life	FSS 25 Nutrition	<u>Or select 3 units from</u>
AGNR 64 Watershed Mgmt	BIOL 12 Field Biology	ESCI 7 Intro/Geol of Calif	GEOG 1A Phys Geog	<u>these 1-2 unit courses:</u>
AGPS 20 Plant Science	BOT 1 Botany	ESCI 8 Planetary Geology	MICR 1 Microbiology	BOT 50, 52
AGPS 24 Soils	CHEM 1AB Gen Chemistry	ESCI 9 Earthquakes	NHIS 15 Natural History	ESCI 16,32,33,34,35,36,
ANAT 1 Anatomy	CHEM 2AB Intro Chemistry	ESCI 10 Envir Geology	PHSC 1 Phys Sci Survey	37,38,42,43,44,45,46
ANTH 1 Phys Anthropology	CHEM 6 Chemistry/Envir	ESCI 12 Gen Earth Science	PHYS 2AB Gen Physic	NHIS 65
ASTR 1 Astronomy	CHEM 10 Chemistry/Lib Art	ESCI 14 Meteorology	PHYS 4A Physics-Mech	ZOOL 15, 63

2. SOCIAL AND BEHAVIORAL SCIENCES: Three (3) units required. Courses in the Social and Behavioral Sciences GE area focus on people as individuals and as members of society. After successful completion of a course from this area, a student will be able to describe, explain, compare, and critique methods of inquiry used by the social and behavioral sciences, or will be able to apply concepts from the social sciences in order to analyze, evaluate, classify, and explain human behavior, or will be able to identify and discuss how societies and social subgroups operate.

ADJU 10 Intro to AOJ	ECE 2 Child/Family/Comm	HIST 1AB Western Civil	JOUR 21 Mass Commun	PSYC 20 Cross Cult Psych*
AGAB 54 Ag Economics	ECE 9 Child Growth & Dev.	HIST 2/3 World Civilization*	POLS 1 Intro Poli Science	PSYC 41 Cult Soc Child*
AGPS 25 Calif. Water	ECON 1A/B Economics	HIST 17AB US History	POLS 2 American Govt	PSYC 46 Hum Mem/Lrng.
ANTH 2 Cultural Anth*	FSS 16 Marriage Family	HIST 25 African Am. Hist*	POLS 20 Politics/Dev World*	SOC 1 Intro Sociology
ANTH 5 Human./Cult./Ecol	FSS 18 Adulthood/Aging	HIST 35 Hist/Mexican Amer*	POLS 25 Global Politics	SOC 2 Social Problems
ANTH 14 Relig,Myth,Ritual*	FSS 60 Life Management	HIST 36 History Far East*	PSYC 1A Gen Psychology	SOC 15 Soc Mass Media
ANTH 25 Cult. Hist Indian*	GEOG 1B Cultural Geog*	HIST 38 Hist World Relig*	PSYC 5 Human Sexuality	SOC 22 Soc of Aging
ARCH 3 Prin of Arch	GEOG 5 Digital Planet	HIST 40 Hist/Gov of CA	PSYC 14 Pers/Social Adj	SOC 25 Soc Minorities*
ARCH 4A Beg Field Arch.	GEOG 7 Calif Geography*	HIST 55 Hist/Amer West	PSYC 15 Soc Psychology	SOC 30 Soc. Of Gender*
CMST 20 Intercul.Comm.	GEOG 8 World Reg Geog*	HIST 57 Russian History	PSYC 16 Health Psych	SOC 70 Social Welfare
ECE 1 Human Develop			PSYC 17 Abnormal Psych	

3. HUMANITIES: Three (3) units required. Courses in the Humanities GE area are those which study the cultural activities and artistic expressions of human beings. After successful completion of a course from this area, a student will be able to express verbally and in writing examples of how peoples of different times and cultures relate to their environments through individual artistic expression and shared cultural traditions, will be able to critically assess and discuss examples of artworks and cultural artifacts utilizing qualitative, contextual criteria, or will be able to describe, explain, discuss, evaluate, compare and contrast, theories that philosophers have used to understand the nature of reasoning, reality and value.

ART 1 Intro to Art	ENGL 1B Lit & Comp	ENGL 24 Multicult Persp*	HUM 2 Explor Humanities	PHIL 6 Intro to Philosophy
ART 2 History of Art	ENGL 10AB World Lit*	ENGL 25 Linguistics	HUM 4 Human thru Film	PHIL 7 Ethics:Right/Wrong
ART 3 Western Art	ENGL 11A/B Survey/Am. Lit	ENGL 31 Creative Writ	HUM 70 Explor Cont TV	PHIL 8 Logic
ART 4 World Art*	ENGL 13A/B Survey Eng Lit	ENGL 33 Fiction and Film	JAPN 1/2/3/4 Japanese*	PHIL 14 Mod Western Phil
ART 6 History/Modern Art	ENGL 14 Drama as Lit	ENGL 36 Children's Lit	JAPN 19+20 Japanese Conv	SPAN 1/2/3/4 Spanish*
ASL 1 Am. Sign Lang 1*	ENGL 15 Lit Women	FREN 1/2/3/4 French*	MUS 10 Music Apprec	SPAN 19 Span Conv/Cult
ASL 2 Am. Sign Lang 2*	ENGL 16 Poetry	GERM 1/2 German*	MUS 11 Hist Jazz & Rock	SPAN 20 Span Conver
ASL 3 Am. Sign Lang 3*	ENGL 17 Shakespeare	HIST 2/3 World Civilization*	MUS 14 World Music*	THTR 1 Intro to Theatre
ASL 4 Am. Sign Lang 4*	ENGL 18 African Amer Lit*			THTR 5 20 th Cent Theatre
CHIN 1 Mandarin Chinese*	ENGL 19 Bible as Literature			THTR 8 Hist/World Theatre
CMST 30 Oral Interpret	ENGL 20 World Mythology*			THTR 9 Hist/World Theatre

4. LANGUAGE AND RATIONALITY: Courses in the Language and Rationality GE Area are those which study the principles and applications of language toward logical thought, clear and precise expression and critical evaluation or communication in whatever symbol system the student uses.

- a. **English Composition:** Three (3) units required. Courses fulfilling the written composition requirement are designed to include both expository and argumentative writing. After successful completion of a course from this area, a student will be able to write clear, logically organized essays using expository and argumentative modes and applying conventions of documentation when appropriate.

ENGL 1A College Composition

BUAD 66 Business Communication

2014-15 Associate Degree – General Education (continued)

- b. **Oral Communication:** Three (3) units required. Courses fulfilling the oral communication requirement are designed to emphasize the psychological, cultural and linguistic factors which affect human communication, including how communication operates in various situations. Course content includes an emphasis on the ability to speak and listen effectively, as well as verbal and non-verbal communication. After successful completion of a course from this area, a student will be able to identify and discuss the role oral communication plays in academic, social, and professional endeavors; and will be able to demonstrate oral competency by constructing messages appropriate to particular communication situations covered in their particular courses.

CMST 10 Interpersonal Communication
CMST 20 Intercultural Communication*

CMST 30 Oral Interpretation
CMST 40 Argument/Debate

CMST 54 Small Group Comm.
CMST 60 Public Speaking

- c. **Analytical Thinking:** Three (3) units required. Courses fulfilling the analytical thinking requirement include mathematics, logic, statistics, computer language and programming and related disciplines. Courses in this area may be used to meet the math competency requirement. After successful completion of a course from this area, a student will be able to apply logical reasoning to collect and critically evaluate information, or construct a formal argument complete with support and reach a logical conclusion, or apply logical reasoning to solve problems.

See *Math Competency Requirement listed below*

AS Level Math :

MATH 102 Inter Algebra
MATH 110 Essential Math

Other Math Courses:

MATH 2 Precalculus
MATH 2AB Precalc/Coll Algebra/Trig
MATH 3AB Calculus
MATH 8 Finite Mathematics

MATH 9 Survey of Calculus
MATH 10 Plane Trigonometry
MATH 11 Patterns of Math
MATH 13 College Algebra/Liberal Arts
MATH 14 Statistics
MATH 17 Calculus for Soc/Life Science
MATH 41AB Conc./Elem Math

Other acceptable courses (if math competency has been satisfied):
CIS 2 Intro Computer Science
CIS 60 Visual Basic Programming
CIS 61 C++ Lang Programming
CIS 62 Java Programming
CIS 63 Assembler Lang Program.
PHIL 8 Logic

5. **MULTICULTURAL/LIVING SKILLS--** Three (3) units required, from either area. Courses in the Multicultural/Living Skills GE area prepare students to live and work in an increasingly multicultural environment or encourage development as integrated physiological, social and psychological beings. After successful completion of a course from this area, a student will be able to compare and contrast perspectives of various cultural groups as defined by religion, ethnicity, race, gender, class or other important social categories; or identify "at risk" patterns of physical or academic or social or emotional or financial behavior and apply their knowledge and skills to assess these patterns and make recommendations for altering them; or develop the criteria for personal or professional success in a given area and then create a specific action plan that targets the criteria—along with a timeline for accountability and evaluation.

MULTICULTURAL COURSES:

ANTH 2 Cultural Anthropology*
ANTH 14 Religion/Myth/Ritual*
ANTH 25 Cult/Hist North Am Indian*
ART 4 World Art *
CMST 20 Intercultural Comm.*
ENGL 10A/B World Lit*

ENGL 18 African American Lit*
ENGL 20 World Mythology*
ENGL 24 Multicultural Lit*
GEOG 1B Cultural Geog*
GEOG 7 California Geog*
GEOG 8 World Regional Geog*

HIST 2/3 World Civilization*
HIST 25 African American History*
HIST 36 History of the Far East*
HIST 38 History/World Religion*
MUS 14 World Music*
POLS 20 Politics/Developing World*

PSYC 20 Cross Cultural Psychology*
PSYC 41 Cultural Social Childhood*
SOC 25 Sociology of Minorities*
SOC 30 Sociology of Gender*

LIVING SKILLS:

AGNR 11 Environ. Ethics
BUAD 10 Intro to Business
BUAD 45 Human Relations/Job
ECE 1 Human Development
ECE 2 Child/Family/Community
ECE 9 Child Growth & Dev.
FSS 16 Marriage and Family
FSS 18 Adulthood/Aging

FSS 25 Nutrition
FSS 26 Nutrition/Life Span
FSS 46 Personal Finance
FSS 60 Life Management
HLTH 1 Health and Wellness#
HLTH 2 Nutrition and Fitness
HLTH 3 Substance Abuse Awareness
PE 4 Lifetime Fitness

PSYC 5 Human Sexuality
PSYC 14 Personal/Social Adj.
REGN 20+33 Med Sur Nrs II/III
SOC 22 Sociology of Aging
STU 1 College Success

#Veterans who have completed basic training and submit a DD214 will receive credit for HLTH 1.

6. **MULTICULTURAL REQUIREMENT –** Three (3) units required. (Note: A course in this area may be double-counted to also satisfy one of the other areas numbered 1-5. Courses which can be double-counted are marked with an asterisk.) - Courses in the Multicultural requirement area contain perspectives on people from other cultures and backgrounds as well as an examination of the contributions of non-Western cultures, or the intersection of culture with race, ethnicity, gender, class or other important social categories, such as religion. After successful completion of a course from this area, a student will be able to compare and contrast perspectives of various cultural groups as defined by religion, ethnicity, race, gender, class or other important social categories.

ADJU 24 Multicult Issues/Law Enf
ANTH 2 Cultural Anth
ANTH 14 Rel, Myth & Ritual
ANTH 25 Cult/Hist North Am Indian
ART 4 World Art
ASL 1, 2, 3, 4 American Sign Lang
CHIN 1 Mandarin Chinese
CMST 20 Intercultural Comm.
ECE 28 Teach Div. Society

ENGL 10A World Lit (to 1650)
ENGL 10B World Lit (after 1650)
ENGL 18 African Amer Lit
ENGL 20 World Mythology
ENGL 24 Multicul Perspec/Amer Lit
FREN 1, 2, 3, 4 French
GEOG 1B Cultural Geography
GEOG 7 California Geography
GEOG 8 World Regional Geog

GERM 1, 2 German
HIST 2 World Civ to 1500 C.E.
HIST 3 World Civ 1500 to Present
HIST 25 African American History
HIST 35 History/Mexican Americans
HIST 36 History/Far East
HIST 38 History/World Religions
JAPN 1, 2, 3, 4 Japanese
MUS 14 World Music

POLS 20 Politics of Dev World
PSYC 20 Cross-Cultural Psychology
PSYC 41 Cul/Soc Context Childhood
SOC 25 Sociology of Minorities
SOC 30 Sociology of Gender
SPAN 1, 2, 3, 4 Spanish

7. COMPUTER LITERACY REQUIREMENT

To earn an associate degree at Shasta College students must demonstrate computer literacy in one of the following ways:

- CIS 1 Computer Literacy with a grade of C or better.
- AGNR 52 Computers in Agriculture and Natural Resources with a grade of C or better.
- Pass the Shasta College computer literacy exam. Contact the Assessment Office for more information.
- Receive credit for CIS 1 through an articulated high school course. Check with your high school or the Shasta College counseling center for more information.
- Possess IC³ certification.
- Receive a score of 50 or higher on the CLEP Information Systems and Computer Applications exam.
- Document completion of a computer literacy requirement at another college.
- Minimum of three units to include the coursework options listed below with a grade of C or better:
OAS 91 (Word) or OAS 51 (Introduction to Keyboarding and Word); and any 2 units from the following:
CIS 20 (Access), OAS 10 (Excel), OAS 80 (Outlook), or OAS 94 (PowerPoint).
Note: MOS or MCAS certification will substitute for the equivalent software class.

5/9/14

Shasta College 2014-2015 California State Universities – General Education

Shasta College students will meet the General Education requirements for all campuses of the California State University system by completing the following General Education Program. Shasta College may certify a maximum of 39 semester units from Categories A - E. Note: No more than 30 semester units may be certified from Categories B - D. Courses listed more than once may be used to fulfill the requirements of one category only.
An additional 9 units of upper division work must be taken at a CSU campus to complete the full 48-unit General Education requirement.

CATEGORY A: Students shall select a minimum of nine (9) units in communications in the English language. Students must select one course from each area.

A1: Oral Communication

CMST 54: Small Group Communication

CMST 60: Public Speaking

A2: Written Communication

ENGL 1A: College Composition

A3: Critical Thinking

ENGL 1B: Literature & Composition

PHIL 8: Logic

CMST 40: Argumentation and Debate

ENGL 1C: Crit. Reasoning/Reading/Writ

CATEGORY B: Students shall select a minimum of nine (9) units in the physical universe and its life forms and in mathematical concepts and quantitative reasoning. Students shall select at least three units from each area. One of the courses must have a laboratory. Additional courses may be selected from any area. Courses underlined are designated as laboratory courses.

B1/B3: Physical Sciences

ASTR 1: Astronomy

AGPS 24: Soils

CHEM 1A: General Chemistry

CHEM 1B: General Chemistry

CHEM 2A: Introduction to Chemistry

CHEM 2B: Intro to Organic & Bio Chemistry

CHEM 6: Intro. Chemistry Applied to Envir.

CHEM 10: Chemistry for Liberal Arts

CHEM 11: Chemistry Lab for Liberal Arts

CHEM 16: Chemical Problem Solving

ESCI 1: Physical Geology

ESCI 2: Geology, Historical

ESCI 3: Mineralogy & Crystal Optics

ESCI 4: Rock Origins & Relationships

ESCI 5: Introduction to Geology

ESCI 6: Ancient Life

ESCI 7: Intro to Geology of California

ESCI 8: Planetary Geology

ESCI 9: Earthquakes, Volcanoes

ESCI 10: Environmental Geology

ESCI 12: General Earth Science

ESCI 14: Meteorology

ESCI 15: Oceanography

ESCI 17: Earth System Science

ESCI 18: Global Climate: Past, Present, Future

GEOG 1A: Physical Geography

GEOG 1AL: Physical Geography Lab

PHSC 1: Physical Science Survey

PHYS 2A: Gen. College Physics

PHYS 2B: Gen. College Physics

PHYS 4A: Physics - Mechanics

B2/B3: Life Sciences

AGAS 19: Principles of Animal Science

AGEH 33: Environ. Horticulture

AGNR 60: Environmental Science

AGNR 61: Environmental Science Lab

AGPS 20: Plant Science

ANAT 1: Human Anatomy

ANTH 1: Physical Anthropology

BIOL 1: Principles of Biology

BIOL 5: Human Biology

BIOL 6: Human Biology

BIOL 10: General Biology

BIOL 10L: General Biology Lab

BIOL 11: Diversity of Life

BIOL 12: Field Biology

BOT 1: General Botany

ESCI 6: Ancient Life

MICR 1: Microbiology

NHIS 15: Natural History

PHY 1: Physiology

ZOOL 1: General Zoology

B4: Mathematical Concepts and Quantitative Reasoning

MATH 2: Precalculus Mathematics

MATH 2A: Precalculus College Algebra

MATH 2B: Precalculus Trigonometry

MATH 3A, 3B, 4A: Calculus

MATH 4B: Differential Equations

MATH 6: Linear Algebra

MATH 8: Finite Mathematics

MATH 9: Survey of Calculus

MATH 10: Plane Trigonometry

MATH 11: Patterns of Mathematical Thought

MATH 13: College Algebra for Liberal Arts

MATH 14: Introduction to Statistics

MATH 17: Calculus for Soc/Life Sciences

MATH 41A: Concepts of Elementary Math

MATH 41B: Concepts of Elementary Math

CATEGORY C: Students shall select a minimum of nine (9) units among the arts, literature, philosophy, and foreign languages, with at least one course in the arts and one in the humanities.

C1: Arts

ART 1: Introduction to Art

ART 2: History of Western Art

ART 3: Western Art, Renaissance to Cont.

**ART 4: World Art

ART 6: History of Modern Art

CMST 30: Oral Interpretation

ENGL 14: Drama as Lit

HUM 2: Exploring the Humanities

HUM 4: Humanities Through Film

MUS 10: Music Appreciation

MUS 11: History of Jazz and Rock

**MUS 14: World Music

THTR 1: Introduction to Theatre

THTR 5: 20th Century Theatre

THTR 8: History of World Theatre I

THTR 9: History of World Theatre II

C2: Humanities

ASL 1 American Sign Language 1

ASL 2 American Sign Language 2

ASL 3 American Sign Language 3

ASL 4 American Sign Language 4

CHIN 1: Mandarin Chinese

ENGL 1B: Literature & Composition

**ENGL 10A: World Literature to 1650

**ENGL 10B: World Literature after 1650

ENGL 11A, 11B: Survey of American Lit.

ENGL 13A, 13B: Survey of English Lit.

ENGL 14: Drama as Lit

ENGL 15: Lit. By/About Women

ENGL 16: Poetry

ENGL 17: Intro to Shakespeare

*ENGL 18: African American Lit

ENGL 19: Survey of Bible as Literature

**ENGL 20: World Mythology

*ENGL 24: Multicultural American Lit.

ENGL 25: Linguistics

ENGL 31: Creative Writing

ENGL 33: Fiction and Film

ENGL 36: Children's Lit

FREN 1, 2: Elementary French

FREN 3, 4: Intermediate French

GERM 1, 2: Elementary German

HIST 2: World Civilization to 1500 C.E.

HIST 3: World Civilization: 1500 to Present

HUM 2: Exploring the Humanities

HUM 4: Humanities Through Film

HUM 70: Exploring Contemporary TV

JAPN 1, 2: Elementary Japanese

JAPN 3, 4: Intermediate Japanese

JAPN 19, 20: Japanese Conversation 1,2

PHIL 6: Introduction to Philosophy

PHIL 7: Ethics: Understanding Right/Wrong

PHIL 8: Logic

PHIL 14: Modern Western Philosophy

SPAN 1, 2: Elementary Spanish

SPAN 3, 4: Intermediate Spanish

SPAN 19,20: Span Conversation/Culture I/ II

Shasta College 2014-15 California State Universities – General Education (continued)

CATEGORY D: Students shall select a minimum of nine (9) units in social, political and economic institutions and behavior, and their historical background, with courses taken in at least two disciplines.

D1: Anthropology and Archaeology

**ANTH 2: Cultural Anthropology
ANTH 5: Humanity, Culture & Ecology

**ANTH 14: Religion, Myth, and Ritual
*ANTH 25: Culture & History/No. Am. Indian

**ARCH 3: Principles of Archaeology

D2: Economics

AGAB 54: Agricultural Economics

ECON 1A, 1B: Principles of Economics

D3: Ethnic Studies

*ANTH 25: Culture & Hist/North Am. Indian
*GEOG 7: California Geography

*HIST 25: African American History
*HIST 35: History of Mexican Americans

*PSYC 20: Cross-cultural Psychology
*SOC 25: Sociology of Minorities

D4: Gender Studies

SOC 30: Sociology of Gender

D5: Geography

**GEOG 1B: Cultural Geography
GEOG 5: Digital Planet: GIS and Society

*GEOG 7: California Geography
**GEOG 8: World Regional Geography

D6: History

HIST 1A,1B: History of Western Civ.
HIST 2: World Civilization to 1500 C.E.
HIST 3: World Civilization 1500 to Present
HIST 17A,17B: U.S. History

*HIST 25: African American History
*HIST 35: History of Mexican Americans
**HIST 36: History of the Far East
**HIST 38: History of World Religion

HIST 40: History & Govern. California
HIST 55: History of American West
HIST 57: Russian History

D7: Interdisciplinary Social or Behavioral Science

AGNR 11: Environmental Ethics
AGPS 25: California Water
CMST 10: Interpersonal Communication

*CMST 20: Intercultural Communication
ECE 1: Human Development
ECE 9: Child Growth & Development

JOUR 21: Intro. to Mass Communications
PSYC 5: Human Sexuality
*PSYC 41: Cultural/Soc Context of Chldhd

D8: Political Science, Government, and Legal Institutions

ADJU 10: Intro to AOJ
POL 1: Intro. to Political Science

POLS 2: Intro. to Amer. Government
**POLS 20: Politics of the Developing World

POLS 25: Global Politics

D9: Psychology

PSYC 1A: General Psychology
PSYC 14: Personal/Social Adjustment
PSYC 15: Social Psychology

PSYC 16: Health Psychology
PSYC 17: Abnormal Psychology
*PSYC 20: Cross-Cultural Psychology

PSYC 46: Human Memory and Learning

D10: Sociology and Criminology

SOC 1: Introduction to Sociology
SOC 2: Social Problems
SOC 15: Sociology of Mass Media

SOC 22: Sociology of Aging
*SOC 25: Sociology of Minorities
SOC 30: Sociology of Gender

SOC 70: Social Welfare

AMERICAN HISTORY AND GOVERNMENT REQUIREMENTS FOR GRADUATION FROM A CSU CAMPUS

Completion of a course in American History and a course in American Government is a requirement to graduate from any of the 23 CSU universities. At Shasta College, HIST 17A or HIST 17B, and POLS 2 will satisfy the requirement.

CATEGORY E: Students shall select a minimum of three (3) units in lifelong understanding and development of themselves as integrated physiological, social and psychological entities.

E1:

ECE 1: Human Development
ECE 2: Child, Family, Community
ECE 9: Child Growth & Development
FSS 16: Marriage and Family
FSS 18: Adulthood and Aging
FSS 25: Nutrition

FSS 26: Nutrition Through the Life Span
FSS 60: Life Management
HLTH 1: Health and Wellness
HLTH 2: Nutrition and Fitness
HLTH 3: Substance Abuse Awareness
PSYC 1A: General Psychology

PSYC 5: Human Sexuality
PSYC 14: Personal/Social Adjustment
PSYC 16: Health Psychology
SOC 22: Sociology of Aging
STU 1: College Success

CHICO STATE requires two courses to satisfy the U.S. Diversity & Global Cultures requirement. Both courses may be part of the 39-unit General Education requirement.

- Courses with one asterisk (*) meet the U.S. Diversity requirement and are "concerned primarily with the aspirations and history of ethnic subcultures". They are ANTH 25, CMST 20, ENGL 18, ENGL 24, GEOG 7, HIST 25, HIST 35, PSYC 20, PSYC 41, SOC 25.
- Courses with two asterisks (**) meet the Global Cultures requirement and are "concerned primarily with cultures and societies outside Western Heritage". They are ANTH 2, ANTH 14, ARCH 3, ART 4, ENGL 10A, ENGL 10B, ENGL 20, GEOG 1B, GEOG 8, HIST 36, HIST 38, MUS 14, POLS 20.

Courses taken for CSU General Education are applied to categories based on the General Education list for the year they are completed. This is the approved list for courses taken Fall 2014 through Summer 2015. See www.assist.org for prior years.

5/19/14

Shasta College 2014-2015 IGETC (Intersegmental General Education Transfer Curriculum)

Students who are planning to transfer to the University of California system or who are undecided about whether to transfer to a UC or CSU may satisfy general education requirements with IGETC. The IGETC will permit a student to transfer from a community college to a campus in either the UC or CSU system without the need to take additional lower division general education courses to satisfy campus general education requirements. Transfer students to UC have the option of following IGETC or completing the general education requirement at the campus they plan to attend. Students pursuing majors that require extensive lower division preparation may not find the IGETC option to be advantageous. Check with a counselor before choosing your general education pattern.

IGETC courses must be completed with a "C" grade or better (P is acceptable).

AREA 1 - ENGLISH COMMUNICATION

Group A: English Composition (one course)
ENGL 1A: College Composition

Group B: Critical Thinking/English Composition (one course)
ENGL 1B: Literature and Composition
ENGL 1C: Critical Reasoning, Reading and Writing

FOR CSU ONLY:

Group C: Oral Communication (one course)
CMST 54: Small Group Communication CMST 60: Public Speaking

AREA 2 - MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING (one course):

MATH 2: Pre-Calculus	MATH 4A/4B: Calculus/Diff. Equations	MATH 13: College Algebra for Liberal Arts
MATH 3A: Calculus+	MATH 6: Linear Algebra	MATH 14: Intro to Statistics
MATH 3B: Calculus	MATH 8: Finite Math	MATH 17: Calc. for Social/Life Sciences
	MATH 9: Survey of Calculus+	

AREA 3 - ARTS AND HUMANITIES (three courses; at least one course from the Arts and one from the Humanities):

ARTS:

ART 1: Introduction to Art	ART 6: History of Modern Art	THTR 1: Introduction to Theatre+
ART 2: History of Western Art	MUS 10: Music Appreciation	THTR 5: 20th Century Theatre
ART 3: Western Art, Renaissance to Cont.	MUS 11: History of Jazz and Rock	THTR 8: History of World Theatre I
ART 4: World Art	MUS 14: World Music	THTR 9: History of World Theatre II

HUMANITIES:

ASL 2 American Sign Language 2	ENGL 20: World Mythology	HUM 2: Exploring Humanities
ASL 3 American Sign Language 3	ENGL 24: Multicult. Perspectives in Amer Lit	HUM 4: Humanities Through the Film
ASL 4 American Sign Language 4	ENGL 25: Linguistics	HUM 70: Exploring Contemporary TV
ENGL 10A/B: World Literature	ENGL 33: Fiction and Film	JAPN 2: Elementary Japanese
ENGL 11A/B: Survey of American Lit.	ENGL 36: Children's Lit	JAPN 3/4: Intermediate Japanese
ENGL 13A/B: Survey of English Lit.	FREN 2: Elementary French	PHIL 6: Intro. to Philosophy
ENGL 14: Survey of Drama as Lit	FREN 3/4: Intermediate French	PHIL 7: Ethics: Understand Right/Wrong
ENGL 15: Lit. By and About Women	GERM 2: Elementary German	SPAN 2: Elementary Spanish
ENGL 16: Poetry	HIST 2: World Civilization to 1500 C.E.	SPAN 3/4: Intermediate Spanish
ENGL 17: Intro to Shakespeare	HIST 3: World Civilization 1500 to Present	
ENGL 18: African American Literature	HIST 25: African American History	
ENGL 19: Survey of the Bible as Literature		

AREA 4 - SOCIAL AND BEHAVIORAL SCIENCES (three courses from at least two disciplines):

ANTH 2: Cultural Anthropology	HIST 1A: History of Western Civilization	PSYC 1A: General Psychology
ANTH 5: Humanity, Culture and Ecology	HIST 1B: History of Western Civilization	PSYC 5: Human Sexuality
ANTH 14: Religion, Myth, and Ritual	HIST 2: World Civilization to 1500 C.E.	PSYC 14: Personal/Social Adjustment
ANTH 25: Culture/History of N. Amer. Indian+	HIST 3: World Civilization 1500 to Present	PSYC 15: Social Psychology
ARCH 3: Principles of Archaeology	HIST 17A: U.S. History and Government	PSYC 17: Abnormal Psychology
CMST 10: Interpersonal Communication	HIST 17B: U.S. History and Government	PSYC 20: Cross-cultural Psychology
ECE 1: Human Development	HIST 25: African American History	PSYC 41: Cultural/Soc Context-Childhood
ECE 9: Child Growth and Development	HIST 35: History of Mexican Americans	PSYC 46: Human Memory & Learning
ECON 1A: Principles of Economics (Micro)	HIST 36: History of the Far East	SOC 1: Introduction to Sociology
ECON 1B: Principles of Economics (Macro)	HIST 38: History of World Religions	SOC 2: Social Problems
GEOG 1A: Physical Geography	HIST 40: History & Government of CA	SOC 15: Sociology of Mass Media
GEOG 1B: Cultural Geography	HIST 55: History of the American West	SOC 22: Sociology of Aging
GEOG 7: California Geography	HIST 57: Russian History of 20th Century	SOC 25: Sociology of Minorities
GEOG 8: World Geography	POLS 1: Introduction to Political Science	SOC 30: Sociology of Gender
	POLS 2: Introduction to American Government	
	POLS 20: Politics of the Developing World	
	POLS 25: Global Politics	

+Transfer credit may be limited by either UC or CSU or both (usually due to duplication of content). Students should consult with a counselor for additional information.

2014-15 IGETC (continued)

AREA 5 - PHYSICAL AND BIOLOGICAL SCIENCES (two courses, one Physical Science and one Biological Science for a minimum of 7 units; at least one course must include a laboratory (underlined)).

PHYSICAL SCIENCES:

ASTR 1: Astronomy
CHEM 1A: General Chemistry
CHEM 1B: General Chemistry
CHEM 2A: Intro to Chemistry +
CHEM 2B: Intro to Org & Bio Chemistry+
CHEM 6: Intro to Chem Applied Environment
 CHEM 10: Chemistry for Liberal Arts+
CHEM 11: Chemistry Lab/Liberal Arts+
CHEM 16: Chemical Problem Solving
 CHEM 70, 71: Organic Chemistry
ESCI 1: Physical Geology

ESCI 2: Historical Geology
 ESCI 3: Mineralogy & Crystal Optics
ESCI 4: Rock Origins & Relationships
ESCI 5: Introduction to Geology+
ESCI 6: Ancient Life
ESCI 7: Intro to Geology of California
 ESCI 8: Planetary Geology
 ESCI 9: Earthquakes, Volcanoes
ESCI 10: Environmental Geology
ESCI 12: Earth Science Survey+
ESCI 14: Meteorology

ESCI 15: Oceanography
 ESCI 17: Earth System Science
 ESCI 18: Global Climate: Past/Present/Future
 GEOG 1A: Physical Geography
GEOG 1AL: Physical Geography Lab
PHSC 1: Physical Science Survey+
PHYS 2A: General College Physics+
PHYS 2B: General College Physics+
PHYS 4A: Physics Mechanics+

BIOLOGICAL SCIENCES:

AGNR 60: Environmental Science
AGNR 61: Environmental Science Lab
AGPS 20: Plant Science
ANAT 1: Human Anatomy
 ANTH 1: Physical Anthropology

BIOL 1: Principles of Biology
 BIOL 5: Intro to Human Biology+
BIOL 6: Intro to Human Biology Lab+
 BIOL 10: General Biology+
BIOL 10L: General Biology Lab

BOT 1: General Botany
MICR 1: Microbiology
 NHIS 15: Natural History
PHY 1: Physiology
ZOOL 1: General Zoology

AREA 6 - LANGUAGE OTHER THAN ENGLISH

Proficiency is required by UC. CSU transfers do not need to meet this requirement. Proficiency is defined as two years of high school study in the same language with a "C" grade or better. If you have not satisfied this requirement in high school, you must take one of these courses:

ASL 1 American Sign Language 1
 CHIN 1: Mandarin Chinese
 FREN 1: Elementary French

GERM 1: Elementary German
 JAPN 1: Elementary Japanese

SPAN 1: Elementary Spanish

CSU GRADUATION REQUIREMENT IN U.S. HISTORY AND AMERICAN IDEALS (Two courses, one from each group):

GROUP 1:

HIST 17A: U.S. History
 HIST 17B: U.S. History

GROUP 2:

POLS 2: Introduction to American Government

+Transfer credit may be limited by either UC or CSU or both (usually due to duplication of content). Students should consult with a counselor for additional information.

This is the approved list for courses taken Fall 2014 through Summer 2015. See www.assist.org for prior years.

4/23/14

Shasta College 2014-15 Certificates

Accounting Clerk/Bookkeeper
 Agriculture – Equine Science
 Agriculture – Equipment Operations and Maintenance
 Agriculture – Horticulture
 Horticulture and Landscaping Program
 Irrigation
 Landscape and Turf Management
 Retail Nursery Sales
 Agriculture – Livestock Quality Assurance
 Agriculture – Natural Resources
 Agriculture – Pest Control Advisor Preparation
 Agriculture – Sustainable Practices
 Applied Geographic Information Systems
 Automotive Technology
 Automotive Chassis
 Automotive Electrical-Electronics
 Automotive Engine Performance
 Automotive Heating-Air Conditioning
 Automotive Powertrain
 Business Administration – Business Entrepreneurship
 Business Retailing
 Computer & Information Systems
 Cisco Networking
 Network Administration
 Web Design
 Windows Server
 Computer Maintenance
 Construction Technology
 CSU - General Education
 Customer Service Academy
 Diesel Technology
 Dietary Service Supervisor
 Early Childhood Education
 ECE-Family Childcare
 Firefighter 1 Certificate
 Firefighter 2 Certificate
 Fire Tech-Wildland Firefighter 1 Academy
 Hospitality
 Baking – Culinary Arts Emphasis
 Bartender – Culinary Arts Emphasis
 Dining Room Management – Culinary
 Arts Emphasis
 Dining Room Staff – Culinary Arts
 Emphasis
 Line Cook – Culinary Arts Emphasis
 Winemaking and Marketing
 Hospitality Management
 Culinary Arts Concentration
 Hotel/Restaurant Management
 Concentration
 Industrial Technology
 IGETC – General Education
 Life Management
 Music
 Nurse Aide/Home Health Aide
 Nursing-Vocational Nursing
 Office Administration
 Administrative Office Assistant
 Administrative Office Professional
 Health Information Management
 Transition Certificate for Students with Disabilities
 Watershed Restoration
 Water/Wastewater Treatment
 Welding

4/15/2014

Degrees and Certificates

More information on associate degree requirements starts on page 5-1.

NOTE: Check with your counselor and/or division office regarding sequence of course offerings for degrees and certificates.

Accounting Clerk/Bookkeeper

Certificate:

SC Program: CT.3060

PROGRAM DESCRIPTION: Completion of the Certificate Program will prepare the student for entry-level position in accounts receivable, accounts payable, payroll, and general ledger.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Express the accounting equation; identify and perform the processes of the accounting cycle; and prepare and interpret the basic financial statements for service and merchandising organizations in accordance with generally accepted accounting principles.
2. Use integrated accounting software in performing the processes of the accounting cycle and preparing the basic financial statements for service and merchandising organizations in accordance with generally accepted accounting principles.
3. Prepare and process payroll records and payroll tax returns in compliance with applicable federal and state laws and regulations.
4. Demonstrate the use of skills relevant for problem solving, decision making and solving ethical dilemmas in the business environment including critical thinking, effective written and oral communication, working effectively in teams and the proficient use of computers for information search, retrieval, problem solving and communication.
5. Identify and explain the current economic indicators regarding inflation, unemployment, monetary and fiscal policy and their effects on consumers and small businesses.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_acct_gainful_employment/.

CERTIFICATE REQUIREMENTS:

ACCT 101▶	Basic Accounting I	3
ACCT 102▶	Basic Accounting II	3
ACCT 103	PC Accounting	2
ACCT 104	Payroll Accounting	2
BUAD 10	Introduction to Business	3
BUAD 66	Business Communications	3
BUAD 106	Business Mathematics	3
BUAD 166	Business English	3
OAS 10	Excel for Windows-I	1
OAS 51	Introduction to Keyboarding and Word	3
OAS 64	Computerized Ten-Key	.5
OAS 166	Records Management	2

TOTAL UNITS FOR CERTIFICATE	28.5
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▶ Student may take ACCT 2 in place of ACCT 101 or ACCT 102

Administration of Justice

Associate in Science:

SC Program: AS.1001

PROGRAM DESCRIPTION: The Administration of Justice Program (AOJ) is designed to provide professional courses in AOJ fields for the pre-service student, and for the criminal justice employee preparing for promotional exams or to upgrade or maintain skills and knowledge. At Shasta College, you will receive occupational training for both the entrance and promotional levels of AOJ agencies and allied services. With additional general education courses, you will also be able to fulfill the requirements to transfer to a four-year college with junior standing. A variety of agencies exist at the federal, state and local levels of government; and also through private industry.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Demonstrate their knowledge of the evolution of the justice system, its objectives, role and trends through discussion and examinations.
2. Demonstrate their knowledge of the basics of California criminal law and the core principles that drive the police and courts, through discussion and examinations.
3. Demonstrate their knowledge of the basics of evidence collection, chain of evidence and submission of evidence and legal requirements for the handling of evidence through discussion and examinations.
4. Demonstrate their knowledge of the California Court Criminal System, law enforcement report writing and court testimony through examination and discussion.
5. Demonstrate their knowledge in the basics of criminal investigation and how the process leads to submission to the District Attorney, court system and corrections, through examination and discussion.
6. Demonstrate their knowledge of how policy/community relations intertwine into community relations through examination and discussion.

DEGREE REQUIREMENTS:

CORE COURSES:

ADJU 10	Introduction to Administration of Justice	3
ADJU 15	Concepts of Criminal Law	3
ADJU 16	Legal Aspects of Evidence	3
ADJU 17	Principles and Procedures of the Justice System	3
ADJU 18	Community Relations	3
ADJU 20	Principles of Investigation	3
ADJU 23	Career Planning for Administration of Justice	3
ADJU 26	Courtroom Testimony/Report Writing	3

RESTRICTED ELECTIVES: (Choose six units) 6

ADJU 11	Traffic Control and Investigation (3)
ADJU 21	Police Field Operations (3)
ADJU 22	Juvenile Procedures (3)
ADJU 24	Multi-Cultural Issues/Law Enforcement (3)
ADJU 25	Substantive Law (3)
ADJU 30	Wildlife Law Enforcement (3)
ADJU 40	Introduction to Corrections (3)

Restricted Electives continued on next page...

Administration of Justice Degree Restricted Electives (continued):

ADJU 41	Fundamentals of Crime and Delinquency (3)
ADJU 42	Interviewing and Counseling (3)
ADJU 45	Criminal Street Gangs (3)
ADJU 46	Narcotic and Drug Use (3)
CIS 1	Computer Literacy Workshop (3)

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:	
Major	30
Additional General Education	18
General Electives	12
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Agriculture – Agricultural Business

Associate in Science:

SC Program: AS.1518

PROGRAM DESCRIPTION: The Agricultural-Business major is designed for students interested in working in the area of agricultural-related business. Career opportunities in agricultural business may include careers with the U.S. Department of Agriculture or Resource Conservation Service or a career in ranch or farm management, banking, agricultural credit, agricultural insurance, consulting firms, or agricultural product distribution and sales. The employment opportunities are many. "Agri" Business is the largest business sector in the world as statistics show that it takes at least 16 people to keep one farmer in business. These people are involved in all phases of agriculture from the production and marketing of everything from the fertilizer and seed, equipment and machinery to the crops, feed, production loans, and crop insurance and so on. In the state of California, agriculture is the #1 commodity which further increases our student's employment opportunities. This degree is designed to give students a broad understanding of the agriculture industry, as it is much easier for a student who has solid foundation in agriculture to be successful in the world of agricultural business as "agri" business differs from other business sectors as much of the time the commodities that are marketed and sold are perishable.

This program also prepares students for transfer to an Agriculture Business program at a four-year university. Students who plan to transfer should talk to a counselor or advisor to select appropriate general education and elective courses that will meet the requirements of the chosen university program.

Students planning to transfer to a college or university should consult a counselor or Agriculture faculty regarding transfer requirements. **TRANSFER REQUIREMENTS MAY BE DIFFERENT FROM A.S. DEGREE REQUIREMENTS.** Sixty (60) units are required for the AS Degree. All graduation requirements must be met.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Demonstrate proficiency in accounting procedures using a double-entry bookkeeping system.

2. Organize and prepare reports, presentations, and other information pertaining to managerial procedures.
3. Describe the economic significance of California Agriculture and its relationship to the global economy.
4. Explain supply and demand as it relates to local and regional agriculture business industries.
5. Demonstrate the ability to make logical business decisions based on the analysis of business trends locally, regionally, and globally.
6. Demonstrate proficiency using computers, the Internet, and other technology as they relate to agri-business.
7. Recognize world markets and describe their effect on local agriculture economies.

DEGREE REQUIREMENTS:

CORE COURSES:

AG 1	Career Planning for Agriculture	2
AG 6	Career Placement – Ag and Natural Resources	1
AG 9A	Agriculture and Natural Resources Leadership I	1
AG 94	Worksite Learning-Agriculture OR	1
AG 58	Student Enterprise Projects	
AGAB 53	Introduction to Agriculture Business	3
AGAS 11	Livestock Feeding and Nutrition	3
AGAS 19*	Principles of Animal Science	3
AGMA 44	Intro. to Const. Skills for Ag and Nat. Resources	3
AGPS 20*	Plant Science	4
AGPS 24*	Soils	3
AGSA 56	Intro. to Sustainable Ag and Farm Management	3

RESTRICTED ELECTIVES: (Choose nine units) 9

AGAB 51	Agriculture Accounting (3)	
AGAB 54*	Agriculture Economics (3)	
ECON 1B*	Principles of Economics (3) OR	
BUAD 76	Sales (3) OR	
BUAD 77	Principles of Marketing (3)	

ADDITIONAL GENERAL EDUCATION REQUIRED:

Computer Literacy test OR	0-3
AGNR 52	Computers in Ag and Natural Resources (3)
CMST 60*	Public Speaking (3) OR
CMST 54*	Small Group Communication (3)
ENGL 1A*	College Composition
MATH 102*	Intermediate Algebra (5) OR
MATH 13*	College Algebra for Liberal Arts (3) OR
MATH 14*	Introduction to Statistics (4)
AREA 3:	Humanities 3
AREA 5/6:	Multicultural/Living Skills

Students planning to transfer to a four-year college or university should consult a counselor or Ag faculty regarding transfer requirements. **TRANSFER REQUIREMENTS MAY BE DIFFERENT FROM AS DEGREE REQUIREMENTS.**

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:	
Major	43-48
Additional General Education	6
General Electives	6-11
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Agriculture – Environmental Horticulture

Also see Agriculture-Horticulture for other Degree/Certificates

Associate in Science:

SC Program: AS.1493

PROGRAM DESCRIPTION: The Environmental Horticulture Degree is designed to prepare students to complete lower division coursework at Shasta College for transfer a B.S. degree in Agriculture with an option in crops horticulture and land resource management at CSU Chico. This degree would also prepare students to transfer to other CSUs but students should consult with Ag faculty or counselor regarding specific transfer requirements. Students interested in more details about this degree should contact the Horticulture Department at 242-2210.

While completing degree requirements, students will also receive training adequate for job placement in areas of landscape management, wholesale and retail nursery and related horticultural fields.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Demonstrate safe and efficient use of both nursery and landscape tools, equipment and supplies.
2. Demonstrate the ability to communicate with clients, assess landscape for ecological and economic sustainability, measure and analyze a property, draft a landscape and a residential irrigation design, develop management schedules, and implement practices based on client needs.
3. Design and implement a nursery operation, select and make production schedules for greenhouse crops, and propagate, grow and market nursery crops.
4. Identify 150 landscape trees, shrubs and ground covers and select species suitable for different landscape situations.
5. Describe and implement both conventional and sustainable methods for use in the landscape relating to cultural practices, weed control, soil amendments, plant selection and care.
6. Obtain all course work necessary for transfer to a 4-year degree program in horticulture or related field.
7. Explain and apply basic principles of botany to horticulture practices.
8. Safely conduct landscape construction activities in the correct construction sequence. Including the proper installation of: a landscape sprinkler system, a low-volume (drip) irrigation system, concrete and brick pavers and landscape plants and sod.
9. Explain and apply the concepts of job estimating and laws as they pertain to landscape construction and maintenance.
10. Demonstrate landscape maintenance activities and equipment operation in a safe manner. Including the ability to test and evaluate soil fertility, select and apply fertilizers at the proper rate. Recognize common turf grass species and select proper maintenance techniques for each type of turf grass and to prune landscape trees and shrubs.

DEGREE REQUIREMENTS:

CORE COURSES:

AG 6	Career Placement – Ag and Natural Resources	1
AGEH 22	Nursery Practices and Plant Propagation	2
AGEH 23	Nursery Practices and Management	2
AGEH 27, 28 & 29	Plant Identification and Taxonomy	3
AGEH 33*	Environmental Horticulture OR	3
AGPS 20*	Plant Science	
AGEH 35	Landscape Design	3

AGAB 54*	Agriculture Economics	3
AGEH 38	Landscape and Turf Management	3
AGMA 44	Intro. to Construction Skills for Ag/Nat Res.	3
AGPS 24*	Soils	3
CHEM 2A*	Introduction to Chemistry	5
CMST 54* or A1*	Small Group Communication	3
ENGL 1A*	College Composition	4
HIST 17A* or 17B*	U.S. History and Government	3
MATH 14*	Introduction to Statistics	4
POLS 2*	Introduction to American Government	3
SPAN 1* or C2*	Elementary Spanish	3-5

RECOMMENDED COURSES (Not Required):

AGAS 19	Principles of Animal Science (3)
AGEH 31	Landscape Irrigation (3)
AGNR 52	Computers in Ag and Natural Resources (3)
CHEM 2B	Introduction to Organic and Biochemistry (5)

Students planning to transfer to a four-year college or university should consult a counselor or Ag faculty regarding transfer requirements. **TRANSFER REQUIREMENTS MAY BE DIFFERENT FROM AS DEGREE REQUIREMENTS.**

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:	
Major	51-53
Additional General Education	9-12**
General Electives	0
Degree Total	63-65*

**CSU Chico does not require Area C for high unit program.

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Agriculture – Equine Science

Associate in Science:

SC Program: AS.1221

PROGRAM DESCRIPTION: This curriculum is designed to provide training in a wide variety of jobs available in the Equine industry; jobs including horse training, horse grooming and care, horse packing, stable management, and others. Classes for this major will mainly be offered during the evening program. Students interested in this major should secure a worksite position early in the program to confirm their desire for working in this industry as well as gaining practical experience.

Students planning to transfer to a college or university should consult a Counselor or Agriculture Faculty Advisor regarding transfer requirements. **TRANSFER REQUIREMENTS MAY BE DIFFERENT FROM ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS.**

Students who do not qualify for advanced levels of mathematics are strongly encouraged to enroll in MATH 100 Technical Applications of Math as preparation for degree requirements. Sixty (60) units are required for an A.S. degree. All graduation requirements are met.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

Continued on next page...

Ag – Equine Science A.S. Degree (continued):

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Describe the processes involved and outline major events in the evolution and domestication of the horse.
2. Describe career opportunities and requirements for successful employment in the equine industry.
3. Relate basic genetic principles to techniques in breeding selection and mating programs.
4. Develop a ranch plan for an equine facility, incorporating legal requirements and regulations.
5. Demonstrate basic handling of the horse including catching, haltering, leading and tying.

DEGREE REQUIREMENTS:

CORE COURSES:

AG 1	Career Planning for Agriculture	2
AG 6	Career Placement – Ag and Natural Resources	1
AG 9A	Agriculture and Natural Resources Leadership I	1
AG 94	Worksite Learning	3
AGAB 51	Agriculture Accounting	3
AGAB 54*	Agriculture Economics	3
AGAS 11	Livestock Feeding and Nutrition	3
AGEQ 12	Horsemanship	3
AGEQ 13	Horse Husbandry	3
AGEQ 21	Horse Management	3
AGEQ 111	Handling Problem Horses	3
AGMA 44	Intro. to Const. Skills for Ag and Nat. Resources	3
AGNR 52	Computers in Agriculture/Natural Resources	3
AGPS 20*	Plant Science	4
AGPS 24*	Soils	3
AGVETT 16	Veterinary Practices	2

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:	
Major	43
Additional General Education	15
General Electives	<u>2</u>
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Ag – Equine Science Certificate:

SC Program: CT.3160

PROGRAM DESCRIPTION: Completion of the Equine Certificate Program will prepare students for entry level positions in stable management, horse transportation and handling, equine care, feed and health care sales.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Describe the processes involved and outline major events in the evolution and domestication of the horse.

2. Describe career opportunities and requirements for successful employment in the equine industry.
3. Relate basic genetic principles to techniques in breeding selection and mating programs.
4. Develop a ranch plan for an equine facility, incorporating legal requirements and regulations.
5. Demonstrate basic handling of the horse including catching, haltering, leading and tying.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_ag_gainful_employment/.

CERTIFICATE REQUIREMENTS:

CORE COURSES:

AG 1	Career Planning for Agriculture	2
AG 6	Career Placement – Ag and Natural Resources	1
AG 94	Worksite Learning	3
AGAS 11	Livestock Feeding and Nutrition	3
AGEQ 12	Horsemanship	3
AGEQ 13	Horse Husbandry	3
AGEQ 14	Western Riding and Training	3
AGEQ 21	Horse Management	3
AGEQ 111	Handling Problem Horses	3
AGEQ 113	Horse Ownership and Basic Handling	3
AGMA 44	Intro. to Const. Skills for Ag/ Natural Resources	3

TOTAL UNITS FOR CERTIFICATE	30
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Agriculture – Equipment Operations & Maintenance

Ag – Equipment Ops & Maintenance Certificate:

SC Program: CL.3425

PROGRAM DESCRIPTION: This curriculum is designed to provide employable skills essential to several occupations and emphasizes the "learning-by-doing" method of instruction on modern up-to-date equipment.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student will:

1. Understand and demonstrate safe heavy equipment operational and maintenance practices.
2. Be able to use heavy equipment to move soil to grade.
3. Be able to perform basic equipment inspections and maintenance procedures.
4. Demonstrate the knowledge and skills to survey, layout and set grade on a construction project.
5. Be able to operate and maintain heavy equipment resulting in minimum impact to the watershed and use appropriate Best Management Practices to control erosion.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_heop_gainful_employment

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Ag – Equipment Operations and Maintenance Certificate (continued):

CERTIFICATE REQUIREMENTS:

AGMA 44	Intro. to Const. Skills for Ag and Nat. Res.	OR	3
WELD 70	Beginning Welding		
AGNR 66A	Watershed Restoration Practicum I		1
Take two of the following courses:			6 – 6.5
AGPS 24	Soils (3)		
CONS 149	Class A & B License Training (3)		
DIES 48	Hydraulics (3.5)		
WELD 73	Structural Steel Metal Fabrication (3)		
CONS 45	Career Planning/Leadership for Heavy Equip.		2
CONS 46	Equipment Operations and Maintenance		3
CONS 47	Project Construction for Equipment Operations		3
CONS 48	Surveying for Equipment Operators		2
Take 1 – 4 units of the following courses:			1 – 4
CONS 55A	Equipment Operations Skills Development (1)		
CONS 55B	Equipment Operations Pad Construction (1)		
CONS 55C	Equipment Ops Roadway Construction (1)		
CONS 55D	Equipment Ops Global Satellite System (1)		
CONS 94	Worksite Learning for Construction Tech (1-4)		
MATH 100*	Technical Applications of Mathematics		3
TOTAL UNITS FOR CERTIFICATE			24 – 27.5

Suggested Courses: CONS 149, AUTO 1, DIES 166, DIES 170, CMST 54, WELD 118, WELD 170, English, Computers

Agriculture – Forest Science and Technology

Ag – Forest Science & Tech Associate in Science:

SC Program: AS.1494

PROGRAM DESCRIPTION: The job market in forestry is strong with respect to both permanent and seasonal employment. On average, 70-80% of seasonal Natural Resources job openings in northern California are for forestry technicians. Duties will vary, but generally include timber inventory and marking, harvest plan layout, ecosystem restoration work, and wildlife surveys. Today, this new forestry must focus on the ecosystem as a whole while realizing we still need to provide a myriad of values from our forests. Such values include biodiversity, clean air and water, and recreation in addition to wood products. By properly applying ecological principles to manage our forests, we can enhance biodiversity and lessen the impact of our consumption on forests around the world.

On average, seasonal forestry technicians are paid anywhere from \$10-\$15 per hour. Permanent jobs for qualified technicians start around \$30,000 - \$40,000 per year with benefits. Students who complete the A.S. degree in Forest Science and Technology will be well prepared to transfer to a four-year degree at Humboldt State, Cal-Poly San Luis Obispo, or other out-of-state institutions such as the University of Idaho. Students should contact a member of the forestry/natural resources faculty to discuss career options and courses.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student will:

1. Have the appropriate coursework and field experience to pursue seasonal Forestry Technician jobs or to transfer to a University in a Forestry-related field.
2. Be able to properly identify all common species of trees and shrubs native to the Western US by their scientific and common names and to discuss general uses, site characteristics, and geographic distributions of these species.
3. Be able to apply knowledge of the Silvicultural treatments used to regulate stand, Composition, regenerate stands, increase growth rates, and improve timber quality.
4. Be able to apply skills in the safe use and maintenance of tools and equipment.
5. Be able to apply computer skills using Forestry-related software.
6. Be able to select and implement an appropriate protocol following the scientific method to collect, statistically analyze, evaluate, and document original research data.
7. Be able to accurately navigate in the field using maps, compass, a Global Positioning System (GPS). Students will also be able to use GPS for field data collection and Geographic Information Systems (GIS) for data mapping and display.
8. Be able to evaluate basic theory, concepts, and ecological principles as they apply to Forestry, Wildlife, Water Resources, and Ecosystem Restoration and will use his/her cumulative skills to think critically and to work out possible solutions to address problems facing Natural Resources managers today and in the future.
9. Be able to apply fundamentals of Wildland fire ecology, behavior, and suppression techniques.

DEGREE REQUIREMENTS:

CORE COURSES:

AGNR 1*	Introduction to Natural Resources	3
AGNR 6	Native Plant Identification	3
AGNR 50	Natural Resources Measurements	4
AGNR 52	Computers in Agriculture/Natural Resources	3
AGNR 53	Forest Protection and Health	3.5
AGNR 65	Forest Ecology	3
AGNR 94	Natural Resources Worksite Learning	3
AGPS 24	Soils	3
BOT 1	General Botany	4
CHEM 2A	Introduction to Chemistry	5
FIRS 118	Introduction to Wildland Fire Fighting	1.5
GEOG 9	Map and Geospatial Principles	3

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

Major	39
Additional General Education	18
General Electives	<u>3</u>
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Agriculture – Horticulture and Landscaping

Also see *Ag-Environmental Horticulture for Transfer Degree information*

Associate in Science:

SC Program: AS.1492

PROGRAM DESCRIPTION: The Green Industry is a huge industry with many different career opportunities. Nursery sales exceed \$55 billion nationally. California sells \$13.26 billion in nursery and floral products annually and the Landscape Industry continues to grow rapidly as population increases both statewide and locally. This degree will prepare students for jobs in both landscape and nursery areas. Job opportunities continue to outnumber the number of graduates in our local area. Career choices include city and county parks; state and federal organizations; garden centers, independent, local and national chains; landscape maintenance business; floral design and arrangement; landscape design and installation and nursery and landscape management positions. Courses include directed practical experience in a modern horticulture facility that includes a floral lab room, 7,000 square feet of greenhouses and 20,000 square feet of landscaping. Many landscaping operations are also done on the beautiful 300-acre college campus.

Students should contact their counselor or environmental horticulture faculty advisor to choose electives for the particular career they are planning to enter. Particular attention should be paid to course prerequisites. Students planning to transfer to a college or university should consult a counselor or Horticulture Faculty Advisor regarding transfer requirements. **TRANSFER REQUIREMENTS MAY BE DIFFERENT FROM A.S. DEGREE REQUIREMENTS.**

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of the certificate, the student will be able to:

1. Demonstrate safe and efficient use of both nursery and landscape tools, equipment and supplies
2. Demonstrate the ability to communicate with clients, assess landscape for ecological and economic sustainability, measure and analyze a property, draft a landscape and a residential irrigation design, develop management schedules, and implement practices based on client needs.
3. Design and implement a nursery operation, select and make production schedules for greenhouse crops, and propagate, grow and market nursery crops.
4. Identify 150 landscape trees, shrubs and ground covers and select species suitable for different landscape situations.
5. Demonstrate skills to assess site or plant cultural issues and make recommendations for enhancing the health of the landscape planting or nursery plants using integrated pest management.
6. Describe and implement both conventional and sustainable methods for use in the landscape relating to cultural practices, weed control, soil amendments, plant selection and care.
7. Be prepared to take the California Pesticide Applicators Certificate Exam with the California Department of Pesticide Regulation.
8. Explain and apply basic principles of botany to horticulture practices.
9. Safely conduct landscape construction activities in the correct construction sequence: Including the proper installation of: a landscape sprinkler system, a low-volume (drip) irrigation system, concrete and brick pavers and landscape plants and sod.
10. Explain and apply the concepts of job estimating and laws as they pertain to landscape construction and maintenance.

11. Demonstrate landscape maintenance activities and equipment operation in a safe manner. Including the ability to test and evaluate soil fertility, select and apply fertilizers at the proper rate. Recognize common turf grass species and select proper maintenance techniques for each type of turf grass and to prune landscape trees and shrubs.
12. Demonstrate a strong work and personal ethic.
13. Demonstrate skills needed to take the Landscape Industries Certified Technician Exam.

DEGREE REQUIREMENTS:

Some of these classes require math skills. Students are encouraged to begin taking math classes early in the program.

CORE COURSES:

AG 6	Career Placement – Ag and Natural Resources	1
AGEH 22	Nursery Practices and Plant Propagation	2
AGEH 23	Nursery Practices and Management	2
AGEH 26	Integrated Pest Management in Environ. Hort.	3
AGEH 27	Plant Identification and Taxonomy	1
AGEH 28	Plant Identification and Taxonomy	1
AGEH 29	Plant Identification and Taxonomy	1
AGEH 31.1	Landscape Irrigation - Design	1
AGEH 31.2	Landscape Irrigation - Installation	1
AGEH 31.3	Landscape Irrigation – Troubleshoot/ Schedule	1
AGEH 33*	Environmental Horticulture	3
AGEH 35	Landscape Design	3
AGEH 38	Landscape and Turf Management	3
AGEH 94	Horticulture Worksite Learning	3
AGMA 44	Introduction to Const. Skills for Ag and Nat. Res.	3
AGNR 52	Computers in Agriculture/Natural Resources	3
AGNR 66A	Watershed Restoration Practicum I	1
AGNR 66B	Watershed Restoration Practicum II	1
AGNR 83	Introduction to GPS	1
AGPS 24*	Soils	3
CHEM 2A*	Introduction to Chemistry	5

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

Major	43
Additional General Education	18
General Electives	<u>0</u>
Degree Total	61*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Ag – Horticulture and Landscaping Certificate:

SC Program: CT.3441

PROGRAM DESCRIPTION: The Green Industry is a huge industry with many different career opportunities. Nursery sales exceed \$55 billion nationally. California sells \$13.26 billion in nursery and floral products annually and the Landscape Industry continues to grow rapidly as population increases both statewide and locally. This certificate will prepare students for jobs in both landscape and nursery areas. Career choices include city and county parks; state and federal organizations; garden centers, independent, local and national chains; landscape maintenance business; floral design and arrangement; landscape design and installation and nursery and landscape management positions. Courses include directed practical experience in a modern horticulture facility that includes a floral lab room, 7,000 square feet of greenhouses and 20,000 square feet of landscaping. Many landscaping operations are also done on the beautiful 300-acre college campus.

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Ag – Horticulture and Landscaping Certificate (continued):

Students should contact their counselor or environmental horticulture faculty advisor to choose electives for the particular career they are planning to enter. Particular attention should be paid to course prerequisites.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of the certificate, the student should be able to:

1. Demonstrate safe and efficient use of both nursery and landscape tools, equipment and supplies
2. Demonstrate the ability to communicate with clients, assess landscape for ecological and economic sustainability, measure and analyze a property, draft a landscape and a residential irrigation design, develop management schedules, and implement practices based on client needs.
3. Design and implement a nursery operation, select and make production schedules for greenhouse crops, and propagate, grow and market nursery crops.
4. Identify 150 landscape trees, shrubs and ground covers and select species suitable for different landscape situations.
5. Demonstrate skills to assess site or plant cultural issues and make recommendations for enhancing the health of the landscape planting or nursery plants using integrated pest management.
6. Describe and implement both conventional and sustainable methods for use in the landscape relating to cultural practices, weed control, soil amendments, plant selection and care.
7. Be prepared to take the California Pesticide Applicators Certificate Exam with the California Department of Pesticide Regulation.
8. Explain and apply basic principles of botany to horticulture practices.
9. Safely conduct landscape construction activities in the correct construction sequence: Including the proper installation of: a landscape sprinkler system, a low-volume (drip) irrigation system, concrete and brick pavers and landscape plants and sod.
10. Explain and apply the concepts of job estimating and laws as they pertain to landscape construction and maintenance.
11. Demonstrate landscape maintenance activities and equipment operation in a safe manner. Including the ability to test and evaluate soil fertility, select and apply fertilizers at the proper rate. Recognize common turf grass species and select proper maintenance techniques for each type of turf grass and to prune landscape trees and shrubs.
12. Demonstrate a strong work and personal ethic.
13. Demonstrate skills needed to take the Landscape Industries Certified Technician Exam

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_hort_gainful_employment

CERTIFICATE REQUIREMENTS:

AG 6	Career Placement – Ag and Natural Resources	1
AGEH 22	Nursery Practices and Plant Propagation	2
AGEH 23	Nursery Practices and Management	2
AGEH 26	Integrated Pest Management in Environ. Hort.	3
AGEH 27, 28, 29	Plant Identification and Taxonomy	3
AGEH 31.1	Landscape Irrigation – Design	1
AGEH 31.2	Landscape Irrigation – Installation	1
AGEH 31.3	Landscape Irrigation – Troubleshoot/Schedule	1
AGEH 33	Environmental Horticulture	3
AGEH 35	Landscape Design	3
AGEH 38	Landscape and Turf Management	3
AGEH 94	Horticulture Worksite Learning	3

AGMA 44	Intro. to Const. Skills for Ag & Natural Res.	3
AGNR 52	Computers in Agriculture/Natural Resources	3
AGNR 66A	Watershed Restoration Practicum I	1
AGNR 66B	Watershed Restoration Practicum II	1
AGNR 83	Intro. to Global Positioning Systems (GPS)	1
AGPS 24	Soils	3
ENGL 190	Reading & Writing II ** (see below for alternative)	4
MATH 100	Tech. App. of Math or Math Placement Level 3	3

TOTAL UNITS FOR CERTIFICATE	45
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******Students may choose one of the following alternatives: ENGL 190 OR BUAD 166 OR a combination of ENGL 191, and two units selected from the following courses: ENGL 192, ENGL 193 or ENGL 194 for a total of 4 units.

Agriculture – Horticulture – Irrigation

Certificate:

SC Program: CL.3426

PROGRAM DESCRIPTION: The Irrigation Certificate Program provides students with the skills, knowledge and hands-on experience necessary to meet the Irrigation Association standards to apply for the Auditor, Contractor or Designer Exams. Students will develop the basic skills and knowledge about irrigation principles and practices. They will explore and become familiar with the current practices in agriculture, landscape, turf management and residential industries. Students will have access to practical applications and computer training on these topics as well as worksite learning opportunities. Basic soil and plant science, electrical principles and pumping technologies will be covered.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and **application for completion of the certificate to Admissions and Records**, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of the certificate, the student should be able to:

1. Demonstrate the ability to communicate with clients, measure and analyze a property, draft a landscape and a residential irrigation design, develop water management schedules, and implement practices based on client needs.
2. Demonstrate safe and efficient use of landscape tools, equipment and supplies
3. Safely conduct landscape construction activities in the correct construction sequence for installation of: a landscape sprinkler system and a low-volume (drip) irrigation system
4. Explain and apply the concepts of job estimating and laws as they pertain to landscape construction and maintenance and utilize this information to calculate job costs.
5. Demonstrate a strong work and personal ethic.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_hort_gainful_employment

CERTIFICATE REQUIREMENTS:

CORE COURSES:

AGEH 31	Landscape Irrigation	3
AGEH 35	Landscape Design	3
AGPS 24	Soils	3
AGPS 25	California Water	3

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Ag – Horticulture – Irrigation Certificate (continued):

RESTRICTED ELECTIVES: (Complete one of the following) 1-4

AGEH 38	Landscape and Turf Management (3)
AGEH 94	Horticulture Worksite Learning (1-4)
AGPS 20	Plant Science (4)
AGMA 44	Intro. to Const. Skills for Ag. and Nat. Res. (3)

TOTAL UNITS FOR CERTIFICATE:	13 – 16
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In addition to the core courses, students will need to complete additional hours of work experience in order to take the Contractor or Designers Certification Exam with the Irrigation Association. Shasta College plans on making these opportunities available through Horticulture Worksite Learning (AGEH 94). Those students taking the Certified Irrigation Contractors exam would also need skills in layout, staking, business, management, and codes.

Agriculture – Horticulture – Landscape & Turf Management

Certificate:

SC Program: CL.2424

PROGRAM DESCRIPTION: Students completing this certificate will be able to plant and maintain landscapes and turf grass for recreational, municipal, commercial and residential use.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of the certificate, the student should be able to:

1. Demonstrate the ability to communicate with clients, assess landscape for ecological and economic sustainability, measure and analyze a property, draft a landscape and a residential irrigation design, develop management schedules, and implement practices based on client needs.
2. Demonstrate safe and efficient use of landscape tools, equipment and supplies
3. Demonstrate landscape maintenance activities and equipment operation in a safe manner. Including the ability to test and evaluate soil fertility, select and apply fertilizers at the proper rate. Recognize common turf grass species and select proper maintenance techniques for each type of turf grass and to prune landscape trees and shrubs
4. Explain and apply the concepts of job estimating and laws as they pertain to landscape maintenance and utilize this information to calculate job costs.
5. Demonstrate a strong work and personal ethic.
6. Be prepared to take the California Pesticide Applicators Certificate Exam with the California Department of Pesticide Regulation.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_hort_gainful_employment/.

CERTIFICATE REQUIREMENTS:

AGEH 26	Integrated Pest Management in Environ. Hort.	3
AGEH 31.1	Landscape Irrigation – Design	1
AGEH 31.2	Landscape Irrigation – Installation	1
AGEH 31.3	Landscape Irrigation – Troubleshoot/Schedule	1
AGEH 38	Landscape and Turf Management	3
AGEH 75	Water Gardening	1

AGEH 94	Horticulture Worksite Learning	1
AGMA 44	Intro. to Const. Skills for Ag and Natural Res.	3
AGPS 24	Soils OR	3
CONS 46	Equipment Operations and Maintenance	

TOTAL UNITS FOR CERTIFICATE:	17
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Agriculture – Horticulture – Retail Nursery Sales

Certificate:

SC Program: CL.3423

PROGRAM DESCRIPTION: This curriculum is designed to help prepare the student for the certification exam administered by the California Association of Nurseries and Garden Centers, and entry into the world of Ornamental Horticulture. The requirement of work experience is an important part of this certification. See details on the CANGC.org website.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of the certificate, the student should be able to:

1. Demonstrate the ability to communicate with clients, assess landscape for ecological and economic sustainability, measure and analyze a property and implement practices based on client needs.
2. Demonstrate safe and efficient use of nursery tools, equipment and supplies.
3. Identify 150 landscape trees, shrubs and ground covers and select species suitable for different landscape situations.
4. Design and implement a nursery operation, select and make production schedules for greenhouse crops, and propagate, grow and market nursery crops.
5. Demonstrate a strong work and personal ethic.
6. Be prepared to take the California Pesticide Applicators Certificate Exam with the California Department of Pesticide Regulation.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_hort_gainful_employment/.

REQUIREMENTS FOR CERTIFICATE:

AGEH 23	Nursery Practices & Management	2
AGEH 26	Integrated Pest Management in Environ. Hort.	3
AGEH 27	Plant Identification and Taxonomy	1
AGEH 28	Plant Identification and Taxonomy	1
AGEH 29	Plant Identification and Taxonomy	1
AGEH 35	Landscape Design	3
AGEH 38	Landscape and Turf Management	3
AGEH 94	Horticulture Worksite Learning	1-3

TOTAL UNITS FOR CERTIFICATE:	15 – 17
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RECOMMENDED COURSES (not required):

BUAD 45	Human Relations on the Job
BUAD 106	Business Mathematics

Agriculture – Livestock Quality Assurance

Certificate:

SC Program: CL.3446

PROGRAM DESCRIPTION: This certificate prepares the student for working in the Food (livestock) Animal Industry. The certificate would include training in beef, pork, lamb and goat quality assurances for food quality and safety. The student will learn laws and regulations involved in the meat and livestock industries. This certificate covers the basic skills of "Food Animal Production," including proper handling, vaccination, and medication protocols.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of the certificate, the student should be able to:

1. Choose and demonstrate proper vaccination protocols given a specific species of livestock and medication options.

REQUIREMENTS FOR CERTIFICATE:

AG 1	Career Planning for Agriculture	2
AGAS 11	Livestock Feeding and Nutrition	3
AGAS 19	Animal Science	3
AGAS 30	Livestock Production	3

TOTAL UNITS FOR CERTIFICATE:	11
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Agriculture – Natural Resources

Associate in Science:

SC Program: AS.1495

PROGRAM DESCRIPTION: This curriculum is designed to provide technician-level training for students interested in working in such areas as wildlife, forestry, range, and outdoor recreation. Typical employers include local, county, and U.S. Government agencies, as well as private companies. Particular attention should be paid to course prerequisites and to whether a class is taught during the fall or spring semester, or both.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student will:

1. Have sufficient coursework and field experience to pursue seasonal technician jobs or to transfer to a University in a Natural Resources-related field.
2. Be able to use a taxonomic key or field guide to correctly identify unknown species of plants, birds, mammals, and aquatic invertebrates to the level of genus.
3. Be able to select and use an appropriate protocol following the scientific method to collect, statistically analyze, evaluate, and document original research data.
4. Be able to accurately navigate in the field using maps, compass, a Global Positioning System (GPS). Students will also be able to use GPS for field data collection and Geographic Information Systems (GIS) for data mapping and display.

5. Be able to evaluate basic theory, concepts, and ecological principles as they apply to Forestry, Wildlife, Water Resources, and Ecosystem Restoration and will use his/her cumulative skills to think critically and to work out possible solutions to address problems facing Natural Resources managers today and in the future.

DEGREE REQUIREMENTS:

CORE COURSES:

AGNR 1*	Introduction to Natural Resources	3
AGNR 6	Native Plant Identification	3
AGNR 12	Environmental Policy and Law	2
AGNR 50	Natural Resource Measurements	4
AGNR 52	Computers in Agriculture/Natural Resources	3
AGNR 60*	Environmental Science (GE-Natural Science)	3
AGNR 64*	Watershed Management and Ecology	3
AGNR 65	Forest Ecology	3
AGNR 66A	Watershed Restoration Practicum I	1
AGNR 70	Wildlife Management and Conservation	3
AGNR 94	Natural Resources Worksite Learning	1
AGMA 44	Intro. to Const. Skills for Ag/Natural Resources	3
AGPS 24*	Soils	3
GEOG 9	Map and Geospatial Principles	3

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

Major	38
Additional General Education	18
General Electives	<u>4</u>
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Ag – Natural Resources Certificate:

SC Program: CT.3442

PROGRAM DESCRIPTION: The Natural Resources curriculum is designed to meet the demand for trained personnel in a broad range of Natural Resource/Environmental Science fields in addition to numerous private organizations.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student will:

1. Be qualified to pursue seasonal job employment with the Federal Government, a State Agency, or a Private company in a field related to Forestry & Natural Resources.
2. Be able to use a specified protocol following the scientific method to collect, analyze, evaluate, and document original research data.
3. Be able to accurately navigate in the field using maps, compass, a Global Positioning System (GPS). Students will also be able to use GPS for field data collection and Geographic Information Systems (GIS) for data mapping and display.
4. Be able to evaluate basic theory, concepts, and ecological principles as they apply to Forestry, Wildlife, Water Resources, and Ecosystem Restoration and will use his/her cumulative skills to think critically and to work out possible solutions to address problems facing Natural Resources managers today and in the future.

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Ag – Natural Resources Certificate (continued):

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_nr_gainful_employment/.

CERTIFICATE REQUIREMENTS:

AGNR 1	Introduction to Natural Resources	3
AGNR 6	Native Plant Identification	3
AGNR 50**	Natural Resources Measurements	4
AGNR 66A**	Watershed Restoration Practicum I	1
AGNR 70	Wildlife Conservation and Management	3
GEOG 9	Map and Geospatial Principles	3

TOTAL UNITS FOR CERTIFICATE	17
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**These courses also count towards the Watershed Restoration Certificate.

Agriculture – Pest Control Advisor Preparation

Agriculture – Pest Control Advisor Preparation Certificate:

SC Program: CT.3450

PROGRAM DESCRIPTION: Pest Control Advisors (PCAs) are licensed professional production consultants who serve California agriculture, natural resource and horticulture producers. PCAs specialize in pest management, but they are also an important resource to producers in a wide range of production concerns related to plant health. This certificate satisfies the core-course requirements specified for option “3. b” in preparing to take the Pest Control Advisor’s exam with the California Department of Pesticide Regulation. The following courses need to be completed with a 2.0 grade point average or better. Note: In addition to completing the course work, the Department of Pesticide Regulation requires PCA exam applicants to have completed 24 months of technical work experience before taking the exam.

This certificate is approved through the California Community College Chancellor’s Office. Upon satisfactory completion of the listed requirements and filing an application for graduation with Admissions and Records, the student’s transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of the certificate, the student should be able to:

1. Demonstrate the ability to communicate with clients, assess pest damage for ecological and economic sustainability, determine thresholds and implement IPM practices based on client/crop needs.
2. Explain and apply basic principles of soils, cation exchange capacity, entomology and botany to horticulture practices and pesticide mode of action.
3. Be prepared to take the California Pesticide Applicators Certificate Exam with the California Department of Pesticide Regulation.
4. Demonstrate application of pesticides in a safe manner, include selecting proper PPE, mixing, calibration and application.

REQUIREMENTS FOR CERTIFICATE:

To prepare for the PCA exam, students will need to complete 42 units of the required curricula specified in the core-curricula areas below with a 2.0 grade point or better in each course.

CATEGORY 1: PHYSICAL AND BIOLOGICAL SCIENCES:

Choose 12 units from the following courses:		12
AGNR 60	Environmental Science (3)	
AGNR 65	Forest Ecology (3)	
AGPS 20	Plant Science (4)	
BIOL 1#	Principles of Biology (4)	
BIOL 10	General Biology Lecture (3)	
BIOL 10L	General Biology Lab (1)	

BIOL 12	Field Biology (3)	
BOT 1#	General Botany (4)	
CHEM 2B#	Intro to Organic Chemistry and Biochemistry (5)	
CHEM 6	Intro to Chemistry Applied to the Environment (4)	
CHEM 26	Fundamentals of Gen, Organic, and Biochem (4)	
CHEM 70 or 71#	Organic Chemistry (4)	
MICR 1#	Microbiology (5)	
ZOOL 1#	General Zoology	

CATEGORY 2: CROP HEALTH:

AGEH 31#	Landscape Irrigation	3
AGNR 70	Wildlife Conservation and Management	3
AGPS 24	Soils	3

CATEGORY 3: PEST MANAGEMENT AND METHODS:

AGEH 26	Integrated Pest Management	3
AGEH 61	Plant Protection Materials	3

CATEGORY 4: PRODUCTION SYSTEMS:

Choose 6 units from the following courses:		6
AGAS 11	Livestock Feeding and Nutrition (3)	
AGAS 19	Principles of Animal Science (3)	
AGAS 30	Livestock Production (3)	
AGEH 22	Nursery Practices and Plant Propagation (2)	
AGEH 27, 28, 29	Plant Identification (1 each for a total of 3)	
AGEH 33	Environmental Horticulture (3)	
AGEH 38	Landscape and Turf Management (3)	
AGEH 60	Master Gardener Training (3)	
AGEH 71/72	Organic Gardening (1 each)	
AGNR 4	Introduction to Range Sciences (3)	
AGNR 53	Forest Protection and Restoration (3)	
AGNR 55	Introduction to Forest Operations (3)	
AGVIT 81	Vineyard Care (1)	

RESTRICTED ELECTIVES:

Complete an additional 9 units from Categories 2-4 above 9

#Indicates at least one prerequisite is required.

TOTAL UNITS FOR CERTIFICATE:	42
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Agriculture – Sustainable Agriculture Science

Associate in Science:

SC Program: AS.1519

PROGRAM DESCRIPTION: The Sustainable Agriculture Science Degree at Shasta College provides training for ranching, farming, agriculture production and related careers in vocational education, sales, services and distribution of agriculture-related products. In the core courses, students will receive a broad-based knowledge of agriculture, agri-business management, and both sustainable and traditional agricultural production practices. A hands-on approach provides students with realistic training and education in livestock husbandry, crop production, farm and land management and equipment operations and repair.

This degree is approved through the California Community College Chancellor’s Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student’s transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Describe the development and dissemination of modern agricultural technologies and land use practices.

Continued on next page...

Ag – Sustainable Ag Science Degree
 Program Learning Outcomes (continued):

2. Explain the principles of crop rotation and demonstrate the ability to develop a simple crop rotation plan.
3. To frame problems and ask critical questions concerning agricultural sustainability.
4. Address complex agricultural problems by using systems thinking and other approaches.
5. Describe the principles and practices used to enhance and maintain biological diversity in an agricultural environment.
6. Evaluate the role of soil fertility in an ecological production system.

DEGREE REQUIREMENTS:

CORE COURSES:

AG 1	Career Planning for Agriculture	2
AG 6	Career Placement – Ag and Natural Resources	1
AG 9A	Agriculture and Natural Resources Leadership I	1
AG 94	Worksite Learning OR	1
AG 58	Student Enterprise Projects	
AGAB 53	Introduction to Agriculture Business	3
AGAS 11	Livestock Feeding and Nutrition	3
AGAS 19*	Principles of Animal Science	3
AGMA 44	Intro. to Cons. Skills for Ag/Natural Resources	3
AGPS 20*	Plant Science	4
AGPS 24*	Soils	3
AGSA 56	Intro. to Sustainable Ag and Farm Management	3
TOTAL UNITS FOR CORE		27

OPTION 1 – General Agri Science Concentration (Choose 8 units)

AGAB 51	Agriculture Accounting (3)
AGAB 54*	Agriculture Economics (3)
AGMA 42	Farm Power and Machinery (3)
CHEM 2A*	Introduction to Chemistry (required) (5)
CHEM 2B*	Introduction to Organic and Biochemistry (5)
CONS 46	Equipment Operations and Maintenance (3)

OPTION 2 –Agriculture Education Concentration (Choose 9 units)

AGAS 30	Livestock Production (3)
AGEH 22	Nursery Practices and Plant Propagation (2)
AGEH 23	Nursery Practices and Management (2)
AGEH 26	Integrated Pest Management in Envir. Hort.(3)
AGEQ 13	Horse Husbandry (3) OR
AGEQ 21	Horse Management (3)
AGMA 42	Farm Power and Machinery (3)
CONS 46	Equipment Operations and Maintenance (3)
WELD 73	Structural Steel Metal Fabrication (3)

OPTION 3 –Farm, Ranch, and Wildland ManagementConcentration (Choose a total of 9 units with at least one course from each area)

(Area 1) WILDLAND MANAGEMENT CURRICULUM

AGNR 4	Introduction to Wildland and Range Ecology (3)
AGNR 12	Environmental Policy and Law (2)
AGNR 64*	Watershed Management and Ecology (3)
AGNR 65	Forest Ecology (3)
AGNR 70	Wildlife Conservation and Management (3)

(Area 2) FARM AND RANCH MANAGEMENT CURRICULUM

AGAB 51	Agriculture Accounting (3)
AGAS 30	Livestock Production (3)
AGEH 26	Integrated Pest Management in Envir.Hort. (3)
AGEH 31	Landscape Irrigation (3) OR
AGPS 25*	California Water (3)
AGEH 33*	Environmental Horticulture (3)
AGEQ 21	Horse Management (3)
AGMA 42	Farm Power and Machinery (3)
AGVIT 80	Vineyard Design and Construction (1)
AGVIT 81	Vineyard Care (1)
WELD 73	Structural Steel Metal Fabrication (3)

Additional General Education Required for A.S. Degree:

ENGL 1A*	College Composition	4
CMST 60*	Public Speaking (3) OR	3
CMST 54*	Small Group Communication (3)	

MATH 102*	Intermediate Algebra (5) OR	3-5
MATH 13*	College Algebra for Liberal Arts (3) OR	
MATH 14*	Introduction to Statistics (4)	

Computer Literacy test OR		0-3
AGNR 52	Computers in Ag and Natural Resources (3)	

AREA 2: Social and Behavioral Science for some Options	0-3
AREA 3: Humanities	3
AREA 5: Multicultural/Living Skills	3

1. Students planning to transfer to a college or university should consult a counselor or Agriculture faculty regarding transfer requirements. TRANSFER REQUIREMENTS MAY BE DIFFERENT FROM A.S. DEGREE REQUIREMENTS.
2. 60 units and all graduation requirements are required for the AS Degree.

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

Major	45-51
Additional General Education	6-9
General Electives	<u>0-9</u>
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Agriculture – Sustainable Practices

Certificate:

SC Program: CL.3447

PROGRAM DESCRIPTION: This certificate covers the basic skills of the Sustainable Agriculture and Ranching methods. The certificate would include training in both plant (crop) and livestock sustainable practices. Courses will include exploration of current sustainable practices and case studies of area farms and ranches. This certificate is a good avenue for students seeking an industry accepted certificate, employment in the sustainable plant or livestock related industries, or anyone interested in sustainable agriculture practices.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and **application for completion of the certificate to Admissions and Records**, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of the certificate, the student should be able to:

1. Identify sustainable agricultural practices, within both the plant (crop) and livestock industries.

REQUIREMENTS FOR CERTIFICATE:

AGAS 30	Livestock Production	3
AGEH 26	Integrated Pest Management	3
AGPS 20	Plant Science	4
AGPS 24	Soils	3
AGSA 56	Sustainable Ag and Farm Management	3

TOTAL UNITS FOR CERTIFICATE: 16

Applied Geographic Information Systems

Associate in Science:

SC Program: AS.1520

PROGRAM DESCRIPTION: The Associate of Science degree in Applied Geographic Information Systems (AGIS) provides students with skills, knowledge and experience in the application of GIS. Students complete courses in the technical aspects of GIS and information technologies, along with courses in fields to which GIS is commonly applied, including earth and social sciences, natural resources and engineering. Students gain knowledge of maps, geographic data, and imagery, while developing skills in data collection, analysis and map creation. As students progress through the program the applied field courses provide direction for learning about the application of GIS, which gives direction to GIS project work. Worksite learning allows students to gain GIS workplace experience in their chosen field and to develop contacts among the community of GIS professionals. Successful students will have strong computer and critical thinking skills. Refer to <http://www.shastacollege.edu/gis> for more information.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Explain and summarize key GIS concepts, applications and societal implications.
2. Perform GIS data acquisition, capture, editing, and attributing.
3. Manage GIS data through file management, database design, georeferencing and conversion.
4. Perform GIS analysis using queries, overlay functions, and models.
5. Produces a portfolio of maps demonstrating effective communication, design aesthetics, application of GIS tools and use of cartographic standards.
6. Employs best practices for GIS project design, planning, and implementation.
7. Effectively engages with community through projects, volunteer activities, user meetings and worksite learning.
8. Articulates key opportunities and challenges related to the application of GIS for a chosen application discipline.
9. Performs customization of GIS applications through programming and web map services.
10. Demonstrates effective written and oral communication as it pertains to a chosen application discipline.

DEGREE REQUIREMENTS:

CORE:

GEOG 5*	Digital Planet: GIS and Society	3
GEOG 9	Map and Geospatial Principles	3
GEOG 10	Introduction to Geographic Information Systems	3
GEOG 12	GIS Data Design and Capture	3
GEOG 13	GIS Spatial Analysis	3
GEOG 14	GIS Cartography and Visualization	3
GEOG 15	Intro to Remote Sensing	3
GEOG 25	GIS Projects	1
GEOG 94	GIS Worksite Learning	2

INFORMATION TECHNOLOGIES:

Choose 6 units from the following courses:		6
CIS 2*	Introduction to Computer Science (3)	
CIS 20	Access for Windows I (1)	
CIS 21	Access for Windows II (1)	
CIS 23	Database Management Systems (3)	
CIS 52	Install and Configure Server 2012 (1)	
CIS 53	Administering Server 2012 (1)	
CIS 54	Configure Advanced Server 2012 Services (1)	
CIS 61*	C++ Programming (3)	
CIS 62*	Java Programming (3)	
CIS 64	Web Programming using Java/ PHP/Flash (3)	
GEOG 21	GIS-CAD Integration (1)	
GEOG 24	Customizing GIS (1)	

APPLICATION DISCIPLINES:

Choose 6 to 8 units from the following courses:		6-8
AGNR 1*	Intro to Natural Resources (3)	
AGNR 50	Natural Resource Measurements (3)	
ENGR 1A	Measurements and Plane Surveying (3)	
ENGR 27	Map and Computer-aided Drafting (3)	
ESCI 5*	Introduction to Geology (4)	
ESCI 10*	Environmental Geology (4)	
GEOG 1A*1AL	Physical Geography (3/1)	
GEOG 1B*	Cultural Geography (3)	

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

Major	36-38
Additional General Education	18
General Electives	4-6
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Applied Geographic Information Systems Certificate:

SC Program: CT.3449

PROGRAM DESCRIPTION: The Geographic Information Systems (GIS) Certificate at Shasta College provides students with the knowledge and skills needed to apply principles, methods and tools of geographic information systems (GIS). Students develop foundation principles of maps, geographically referenced data, imagery and global positioning systems. GIS fundamentals are taught, both in conceptual and practical terms. Students learn the design of geographic databases and the capture of data using global positioning systems (GPS) and remotely sensed imagery. Spatial analysis skills are developed, from basic geographic inquiry through more complex analysis using GIS overlays and models. Students learn the principles and practice of remote sensing and image processing for integration with GIS and GPS. Maps are designed and implemented for output in hardcopy and digital formats. Worksite learning allows students to gain GIS workplace experience and to develop contacts among the community of GIS professionals. Successful students will have strong computer and critical thinking skills. Refer to <http://www.shastacollege.edu/gis> for more information.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this degree.

Continued on next page...

Applied Geographic Information Systems Certificate (continued):

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Explain and summarize key GIS concepts, applications and societal implications.
2. Perform GIS data acquisition, capture, editing, and attributing.
3. Manage GIS data through file management, database design, georeferencing and conversion.
4. Perform GIS analysis using queries, overlay functions, and models.
5. Produce a portfolio of maps demonstrating effective communication, design aesthetics, application of GIS tools and use of cartographic standards.
6. Employ best practices for GIS project design, planning, and implementation.
7. Effectively engage with community through projects, volunteer activities, user meetings and worksite learning.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/gis_gainful_employment.

CERTIFICATE REQUIREMENTS:

GEOG 5	Digital Plant: GIS and Society	3
GEOG 9	Map and Geospatial Principles	3
GEOG 10	Introduction to GIS	3
GEOG 12	GIS Data Design and Capture	3
GEOG 13	GIS Spatial Analysis	3
GEOG 14	GIS Cartography and Visualization	3
GEOG 15	Introduction to Remote Sensing	3
GEOG 25	GIS Projects	1
GEOG 94	GIS Worksite Learning	2

TOTAL UNITS FOR CERTIFICATE	24
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Art

Associate in Arts:

SC Program: AA.1040

PROGRAM DESCRIPTION: This curriculum qualifies the student for the AA degree in Art. Students interested in transferring should check course requirements with counselors or the transfer college.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Describe and successfully apply the elements and principles of art and design to two-dimensional compositions or three dimensional forms.
2. Select appropriate tools and techniques in dealing with a variety of media then demonstrate informed, skilled and sensitive handling in the execution of two-dimensional imagery and three-dimensional forms.
3. Investigate, develop and employ conceptual themes which clearly and consistently reflect the student's point of view.
4. Effectively identify and utilize resources for art historical research.

5. Articulate his/her (objective and subjective) understanding of two and three dimensional works in writing.
6. Orally evaluate the works of fellow students and implement suggestions made through the evaluation of his/her work by others.

DEGREE REQUIREMENTS:

CORE COURSES:

ART 2*	History of Western Art Through Gothic Period	3
ART 3*	Western Art, Renaissance to Contemporary	3
ART 12	Beginning Form, Design and Color	3
ART 13	Intermediate Form, Design and Color	3
ART 21A	Beginning Freehand Drawing	3
ART 21B	Intermediate Freehand Drawing	3

*May be used to fulfill General Education requirements.

RESTRICTED ELECTIVES: (Choose nine units) 9

ART 15	Three Dimensional Design (3)	
ART 17	Shades, Shadows and Perspectives (3)	
ART 26A	Beginning Watercolor (3)	
ART 26B	Intermediate Watercolor (3)	
ART 26C	Advanced Intermediate Watercolor (3)	
ART 26D	Advanced Watercolor (3)	
ART 29A	Beginning Painting (3)	
ART 29B	Intermediate Painting (3)	
ART 29C	Advanced Intermediate Painting (3)	
ART 29D	Advanced Painting (3)	
ART 31A	Beginning Figure Drawing (3)	
ART 31B	Intermediate Figure Drawing (3)	
ART 31C	Advanced Intermediate Figure Drawing (3)	
ART 31D	Advanced Figure Drawing (3)	
ART 35A	Beginning Ceramics (3)	
ART 35B	Intermediate Ceramics (3)	
ART 45	Beginning Glass (3)	
ART 46	Glass Blowing (3)	
ART 50A	Beginning Printmaking (3)	
ART 50B	Intermediate Printmaking (3)	
ART 50C	Advanced Printmaking (3)	
ART 55A	Beginning Sculpture (3)	
ART 55B	Intermediate Sculpture (3)	
ART 55C	Advanced Sculpture (3)	
ART 57	Sculptural Glass (3)	
ART 60A	Beginning Darkroom Photography (3)	
ART 60B	Intermediate Darkroom Photography (3)	
ART 60C	Advanced Intermediate Darkroom Photography (3)	
ART 60D	Advanced Darkroom Photography (3)	
ART 70A	Beginning Digital Photography (3)	
ART 70B	Intermediate Digital Photography (3)	
ART 70C	Advanced Intermediate Digital Photography (3)	
ART 70D	Advanced Digital Photography (3)	

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Major	27
Additional General Education	18
General Electives	<u>15</u>
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Automotive Technology

Associate in Science:

SC Program: AS.1050

PROGRAM DESCRIPTION: The Automotive Technology Program is designed to prepare students for employment and advancement in the automotive field. Curriculum requirements have been developed for certification by the National Institute for Automotive Service Excellence (ASE) program. The curriculum has been planned to provide technical knowledge and laboratory experiences related to a wide range of automotive applications.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Inspect, diagnose, disassemble, repair, replace and service components/systems in student's area of specialization.
2. Work safely and responsibly within all shop safety and environmental guidelines and standards.
3. Demonstrate competency in accessing and applying technical service information.

DEGREE REQUIREMENTS:

CORE COURSES:

AUTO 1	Vehicle Electrical Systems	3
AUTO 10	Automotive Electronics	3
AUTO 20	Engine Performance	4
AUTO 21	Advanced Engine Performance	3
AUTO 94	Automotive Worksite Learning	2
AUTO 130	Automotive Steering & Suspension	3
AUTO 131	Automotive Wheel Alignment	2
AUTO 147	Automotive Braking Systems	3
AUTO 150	Introduction to Engine Machining	5
AUTO 161	Manual Drive Trains & Axles	3
AUTO 162	Automatic Transmissions and Transaxles	4
AUTO 163	Automotive Heating & Air Conditioning	3
ENGL 1A*	College Composition	4
INDE 1	Career Planning for Industrial Technology	1
MATH 110*	Essential Math	3

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:	
Major	46
Additional General Education	15
General Electives	0
Degree Total	61*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Automotive Technology Certificate:

SC Program: CT.3010

PROGRAM DESCRIPTION: The objective is to allow the student to gain entry level skills specific to the automotive industry.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Inspect, diagnose, disassemble, repair, replace and service components/systems in student's area of specialization.
2. Work safely and responsibly within all shop safety and environmental guidelines and standards.
3. Demonstrate competency in accessing and applying technical service information.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_auto_gainful_employment/.

CERTIFICATE REQUIREMENTS:

AUTO 1	Vehicle Electrical Systems	3
AUTO 10	Automotive Electronics	3
AUTO 20	Engine Performance	4
AUTO 21	Advanced Engine Performance	3
AUTO 94	Automotive Worksite Learning	2 3
AUTO 130	Automotive Steering & Suspension	3
AUTO 131	Automotive Wheel Alignment	2
AUTO 147	Automotive Braking Systems	3
AUTO 150	Introduction to Engine Machining	5
AUTO 161	Manual Drive Trains & Axles	3
AUTO 162	Automotive Transmissions and Transaxles	4
AUTO 163	Automotive Heating & Air Conditioning	3
INDE 1	Career Planning for Industrial Technology	1

TOTAL UNITS FOR CERTIFICATE	39 40
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Online catalog revised on 6/2/2014

Automotive Technology – Automotive Chassis

Certificate:

SC Program: CL.3435

PROGRAM DESCRIPTION: Introduction to automotive chassis systems: Principles of automotive brake and suspension systems, wheel balance, tire service, suspension and headlamp alignment; maintenance, troubleshooting procedures, and proper use of alignment and balancing machines, brake lathes and other diagnostic equipment; diagnosis, disassembly, inspection, and rebuilding of suspension and brake systems; emphasis on proper use of manuals and safe use of tools and equipment; preparation for CA State Brake and Lamp licensing exams.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

Continued on next page...

Automotive Technology – Automotive Chassis Certificate (continued):

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Perform undercar inspections and repair suspension, hydraulic, and active braking systems.
2. Diagnose vehicle alignment concerns.
3. Identify the basic electrical circuits and diagnose automotive electrical systems.
4. Apply the basic principles of physics as they work in the automotive industry.

CERTIFICATE REQUIREMENTS:

AUTO 1	Vehicle Electrical Systems	3
AUTO 130	Automotive Steering & Suspension	3
AUTO 131	Automotive Wheel Alignment	2
AUTO 147	Automotive Braking Systems	3

TOTAL UNITS FOR CERTIFICATE	11
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Automotive Technology – Automotive Electrical-Electronics

Certificate:

SC Program: CL.3436

PROGRAM DESCRIPTION: A study of basic electrical theory and the function, diagnosis, and repair of modern automotive electrical systems. Emphasis is placed on the use of instrumentation in the diagnosis of electrical circuits and component failures.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Identify the basic electrical circuits and diagnose automotive electrical systems.
2. Apply the basic principles of physics as they work in the automotive industry.

CERTIFICATE REQUIREMENTS:

AUTO 1	Vehicle Electrical Systems	3
AUTO 10	Automotive Electronics	3

TOTAL UNITS FOR CERTIFICATE	6
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Automotive Technology – Automotive Engine Performance

Certificate:

SC Program: CL.3437

PROGRAM DESCRIPTION: This certificate prepares a student to be successful as an entry-level technician in vehicle electrical systems repairs.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of

completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Identify the basic electrical circuits and diagnose automotive electrical systems.
2. Apply the basic principles of physics as they work in the automotive industry.
3. Interpret and analyze automotive fuel, and ignition systems.
4. Utilize appropriate diagnostic equipment, documentation, and troubleshooting principles on various automotive systems.

CERTIFICATE REQUIREMENTS:

AUTO 1	Vehicle Electrical Systems	3
AUTO 10	Automotive Electronics	3
AUTO 20	Engine Performance	4
AUTO 21	Advanced Engine Performance	3

TOTAL UNITS FOR CERTIFICATE	13
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Automotive Technology – Automotive Heating – Air Conditioning

Certificate:

SC Program: CL.3439

PROGRAM DESCRIPTION: Study of automotive air conditioning systems: Principles and systems necessary for the installation, design, function, and repair of air conditioning units; maintenance, troubleshooting procedures, proper use of air conditioning charging station and recovery/recycle equipment; emphasis on proper use of manuals and safe use of tools and equipment.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Identify the basic electrical circuits and diagnose automotive electrical systems.
2. Apply the basic principles of physics as they work in the automotive industry.
3. Demonstrate an understanding of automotive HVAC systems and approved air-conditioning service practices.
4. Utilize appropriate diagnostic equipment, documentation, and troubleshooting principles on automotive HVAC systems.

CERTIFICATE REQUIREMENTS:

AUTO 1	Vehicle Electrical Systems	3
AUTO 10	Automotive Electronics	3
AUTO 163	Automotive Heating & Air Conditioning	3

TOTAL UNITS FOR CERTIFICATE	9
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Automotive Technology – Automotive Powertrain

Certificate:

SC Program: CL.3440

PROGRAM DESCRIPTION: Theory, operation, diagnosis, repair and maintenance of drivetrain and automatic transmissions: Single dry-disc clutches, manual transmissions/transaxles, universal joints, final drives, and hydraulically-controlled automatic transmissions and transaxles.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Demonstrate knowledge of the overall operation of an automotive transmission and differential.
2. Utilize appropriate diagnostic equipment, documentation, and troubleshooting principles on various power train systems.
3. Diagnose vehicle power train concerns.
4. Identify the basic electrical circuits and diagnose automotive electrical systems.
5. Apply the basic principles of physics as they work in the automotive industry.

CERTIFICATE REQUIREMENTS:

AUTO 161	Manual Drive Trains & Axles	3
AUTO 162	Automatic Transmissions and Transaxles	4

TOTAL UNITS FOR CERTIFICATE	7
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Business

Associate in Science:

SC Program: AS.1085

PROGRAM DESCRIPTION: This degree prepares you to enter the workforce and have the skills you need to move up the career ladder. Your beginning career opportunities include entry-level marketing, management, entrepreneur, customer service representative and retail sales. The courses offered in this degree teach the skills necessary to be successful in business. Many courses are offered during the day and evening at one of our extended education campuses, and online.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Explain the criteria for the formation and enforcement of business and consumer contracts, including the specialty areas of sales and agency.
2. Demonstrate the use of skills relevant for problem-solving, decision-making, and resolving ethical dilemmas in the business environment including critical thinking, effective written and oral communication, working effectively in teams and the proficient use of computers for information search, retrieval, problem solving and communication.

3. Identify and explain the current economic indicators regarding inflation, unemployment, monetary and fiscal policy and their effects on consumers and small businesses.
4. Express the accounting equation; identify and perform the processes of the accounting cycle; and prepare and interpret the basic financial statements for service and merchandising organizations in accordance with generally accepted accounting principles.
5. Utilize their ability to identify and apply business and finance concepts to advance into upper division course work as business majors in the fields of accounting, finance, marketing, management and information technology and services.

DEGREE REQUIREMENTS:

CORE COURSES:

ACCT 101	Basic Accounting I	3
ACCT 102	Basic Accounting II	3
ACCT 103	PC Accounting	2
BUAD 6	Business Law I OR	3
BUAD 8	Business Law II	
BUAD 10*	Introduction to Business	3
BUAD 12	International Business	3
BUAD 40	Entrepreneurship and Small Business OR	3
BUAD 176	Principles of Retailing	
BUAD 41	Supervision and Leadership	3
BUAD 45*	Human Relations on the Job	3
BUAD 66*	Business Communications	3
BUAD 71	Introduction to e-Commerce	1
BUAD 76	Sales OR	3
BUAD 77	Principles of Marketing	
BUAD 106	Business Mathematics	3
CIS 1	Computer Literacy Workshop	3
ECON 1B*	Principles of Economics (MACRO)	3
OAS 10	Excel for Windows – I	1

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

Major	43
Additional General Education	12
General Electives	<u>5</u>
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Business Administration – Accounting Concentration

Associate in Science:

SC Program: AS.1081

PROGRAM DESCRIPTION: This degree prepares you to enter the workforce in an entry level accounting, bookkeeping, or clerk position with many private sector and government organizations. This degree also provides an excellent knowledge base for those planning to pursue an advanced degree in accounting, business, economics, or law (ACCT 2 and ACCT 4 are recommended for these students).

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

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Business Admin. – Accounting Concentration Degree (continued):

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Express the accounting equation; identify and perform the processes of the accounting cycle; and prepare and interpret the basic financial statements for service and merchandising organizations in accordance with generally accepted accounting principles.
2. Identify and illustrate fundamental accounting concepts, classifications, cost systems, cost-volume-profit relationships, budgeting and profit planning to support planning, control and decision making activities of management.
3. Use integrated accounting software in performing the processes of the accounting cycle and preparing the basic financial statements for service and merchandising organizations in accordance with generally accepted accounting principles.
4. Prepare and process payroll records and payroll tax returns in compliance with applicable federal and state laws and regulations.
5. Apply the Internal Revenue Code and related Treasury Regulations as they relate to individual, partnership and corporation income taxes; prepare simple individual income tax returns.
6. Explain the criteria for the formation and enforcement of business and consumer contracts, including the specialty areas of sales and agency.
7. Demonstrate the use of skills relevant for problem solving, decision making and solving ethical dilemmas in the business environment including critical thinking, effective written and oral communication, working effectively in teams and the proficient use of computers for information search, retrieval, problem solving and communication.

DEGREE REQUIREMENTS:

CORE COURSES:

ACCT 101	Basic Accounting I (3) AND	6-8
ACCT 102	Basic Accounting II (3)	
OR		
ACCT 2	Introduction to Financial Accounting (4) AND	
ACCT 4	Introduction to Managerial Accounting (4)	
ACCT 103	PC Accounting	2
ACCT 104	Payroll Accounting	2
ACCT 194	Income Tax	3
BUAD 6	Business Law I	3
BUAD 10*	Introduction to Business	3
BUAD 15	Business and Society	3
BUAD 45*	Human Relations on the Job	3
BUAD 66*	Business Communications	3
CIS 1	Computer Literacy Workshop	3
CIS 20	Access for Windows-I (1) OR	1-3
CIS 23	Fundamentals of SQL (3)	
OAS 10	Excel for Windows I	1
OAS 11	Excel for Windows II	1
OAS 51	Introduction to Keyboarding and Word	3
OAS 64	Computerized Ten-Key	0.5

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

Major	37.5 – 41.5
Additional General Education	15
General Electives	<u>3.5 – 7.5</u>
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Business Administration – Business Entrepreneurship

Certificate:

SC Program: CL.3055

PROGRAM DESCRIPTION: Students completing this certificate will have the foundation necessary to begin building a small business.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Present an outline of a well-structured business plan, beginning with the Title Page and ending with an Appendix. There are a total of 11 topics discussed in class.

CERTIFICATE REQUIREMENTS:

ACCT 101	Basic Accounting I	3
BUAD 10	Introduction to Business	3
BUAD 40	Entrepreneurship and Small Business	3
BUAD 42	Financing a Small Business	3
BUAD 71	Introduction to e-Commerce	1
BUAD 120	Starting a Small Business	1
CIS 1	Computer Literacy Workshop	3

TOTAL UNITS FOR CERTIFICATE 17

Business Retailing

Certificate:

SC Program: CT.3351

PROGRAM DESCRIPTION: This program is designed to enable students to find entry-level positions in the retail selling areas as sales personnel.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Express the accounting equation; identify and perform the processes of the accounting cycle; and prepare and interpret the basic financial statements for service and merchandising organizations in accordance with generally accepted accounting principles.
2. Recognize, acknowledge and apply the functions and responsibilities of retail management.
3. Develop and apply a business retailing strategy leading to a business plan.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_buad_gainful_employment/.

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Business Retailing Certificate (continued):

REQUIREMENTS FOR CERTIFICATE:

ACCT 101	Basic Accounting I	3
BUAD 10	Introduction to Business	3
BUAD 45	Human Relations on the Job	3
BUAD 66	Business Communications	3
BUAD 71	Introduction to e-Commerce	1
BUAD 76	Sales	1
BUAD 80	Principles of Customer Service	3
BUAD 94	Business Worksite Learning	1
BUAD 106	Business Mathematics	3
BUAD 176	Principles of Retailing	3
CIS 1	Computer Literacy Workshop	3

TOTAL UNITS FOR CERTIFICATE:	29
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Computer and Information Systems- Systems Management

Associate in Science:

SC Program: AS.1157

PROGRAM DESCRIPTION: This degree combines the core business courses with courses in the Information Technology (IT) skills area. It prepares you to enter the workforce in an entry level IT related position with many public and private organizations, or to start your own IT related business. The degree also prepares you to transfer to a four-year institution and complete a bachelor's degree in an IT related area.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Demonstrate at a fundamental level of knowledge and understanding of business practices including finance, accounting, marketing, management, human relations, e-commerce, legal and ethical considerations.
2. Given a set of requirements design, develop, and debug a computer program that satisfies the requirements.
3. Demonstrate competence using office software including database, spreadsheet, and word processing.
4. Given a set of requirements design and build a web page that meets the requirements.
5. Build and troubleshoot a computer network involving three computers, an ethernet switch, and IP addressing.

DEGREE REQUIREMENTS:

CORE COURSES:

ART 80A	Graphic Design	3
BUAD 10 *	Introduction to Business (fulfills GE requirement)	3
BUAD 66 *	Business Communications	3
BUAD 71	Introduction to e-Commerce	1
BUAD 72	e-Commerce Marketing	1
BUAD 80	Principles of Customer Service	3
CIS 2 *	Introduction to Computer Science	4
CIS 20	Access for Windows	1
CIS 23	Fundamentals of SQL	3
CIS 60 *	Visual Basic Programming	3
CIS 62 *	Java Programming	3
CIS 64	Web Programming Using JAVA/PHP/FLASH	3
CIS 73	Photoshop	1
CIS 83	Web Design Using Dreamweaver	2

CIS 86	HTML	3
CIS 92	Computer Security	3
OAS 10	Excel for Windows – 1	1

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

Major	41
Additional General Education	15
General Electives	4
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Computer and Information Systems – Cisco Networking

Certificate:

SC Program: CL.3441

PROGRAM DESCRIPTION: This certificate program is awarded to students who have successfully completed the Introduction to Computer Science course and the CCNA sequence of courses. Students learn entry level networking skills that will help prepare them for a career in the Information Technology (IT) field. The program prepares students to take the Cisco CCNA certification exam.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Demonstrate competence in the area of Cisco Networking. To demonstrate competence in this area the student will be able to build networks with the following features: three computers on a LAN using a switch; a router with passwords, interfaces, routing protocol configured; a switch with two VLANs and STP protocol; PPP encapsulation and PAP/CHAP authentication protocols between two routers connected with a serial link.
2. Convert an IP Address and subnet mask from a dotted decimal notation into a binary format. Using the values in a binary format the student will then be able to demonstrate the function of the subnet mask in isolating the network address.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_cis_gainful_employment/.

CERTIFICATE REQUIREMENTS:

CIS 2	Introduction to Computer Science	4
CIS 31	CCNA1–Networking/Home and Small Business	3
CIS 32	CCNA2–Working at a Small to Med. Business/ISP	3
CIS 33	CCNA3–Routing and Switching in the Enterprise	3
CIS 34	CCNA4–Designing/Supporting Computer Networks	3

TOTAL UNITS FOR CERTIFICATE	16
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Computer and Information Systems – Network Administration

Associate in Science:

SC Program: AS.1158

PROGRAM DESCRIPTION: This degree program prepares students for a career working in the Information Technology (IT) field as a computer and network technician. The primary focus of this field is to design, install, and maintain computer and networking systems. The program focuses on three primary areas of study--Cisco networking, Microsoft networking, and computer maintenance. The program prepares students to take certification exams including Cisco CCNA, Comptia A+, and Microsoft MCTS. Specific skills that are taught include switch and router installation, wireless network installation, server installation, communication technologies, host computer installation and troubleshooting, and basic electronics. Throughout the entire curriculum interpersonal skills are taught and emphasized as a vitally important part of the skill set of a successful IT technician.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Demonstrate competence in the area of Cisco Networking. To demonstrate competence in this area the student will be able to build networks with the following features: three computers on a LAN using a switch; a router with passwords, interfaces, routing protocol configured; a switch with two VLANs and STP protocol; PPP encapsulation and PAP/CHAP authentication protocols between two routers connected with a serial link.
2. Demonstrate competence in the area of A+ computer maintenance. To demonstrate competence in this area the student will be able to: accurately identify and explain the function of the CPU, harddrive, RAM, CDROM drive, and video card of a PC.
3. Demonstrate competence in the area of Microsoft Networking. To demonstrate competence in this area the student will be able to: Install Windows Seven Professional; to Manage Users, Computers and Groups in Windows 2008 Server; to Implement, Manage and Maintain Name Resolution; to Plan and Implement Server Roles and Server Security; to Plan and Implement an Active Directory Infrastructure; to Create the Logical Design for an Active Directory Infrastructure; to Create the Logical Design for Network Infrastructure Security.
4. Demonstrate competence in the area of human relations and presentation skills. To demonstrate competence in these areas the student will effectively work with other students in a team setting and effectively present a team network design project to a design review committee consisting of other students.
5. Demonstrate competence in the area of web page design and development. To demonstrate competence in these areas the student will develop and publish a 3-page web site to a server. The site must include the following elements: (1) appropriate overall design elements; (2) working hyperlinks among pages, to an outside site(s), and to an e-mail address; (3) a table; and (4) a form.
6. Demonstrate competence in the area of basic electronics. To demonstrate competence in this area the student will accurately test electronic components such as LED, 7Segment display, pushbutton, speaker and photo sensor, and correctly build circuits with the electronic components and program a microcontroller to manipulate the built circuits.

DEGREE REQUIREMENTS:

CORE COURSES:

BUAD 41*	Leadership and Supervision	3
BUAD 45 *	Human Relations on the Job	3
CIS 2 *	Introduction to Computer Science	4
CIS 23	Fundamentals of SQL	3
CIS 31	Cisco CCNA 1	3
CIS 32	Cisco CCNA 2	3
CIS 33	Cisco CCNA 3	3
CIS 34	Cisco CCNA 4	3
CIS 50	Windows 8 – Configuration	1
CIS 51	Managing and Maintaining Windows 8	1
CIS 52	Install and Configure Server 2012	1
CIS 53	Administering Server 2012	1
CIS 54	Configure Advanced Server 2012 Server	1
CIS 55	Exchange Server 2010, Configuring	1
CIS 72	Fundamentals of Linux	3
CIS 90	A+ Certification Prep/Cisco IT Essentials I	4
CIS 92	Computer Security	3
INDE 138	Fundamentals of Electronics	3

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

Major	44
Additional General Education	18
General Electives	<u>0</u>
Degree Total	62*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

CIS – Network Administration Certificate:

SC Program: CT.3106

PROGRAM DESCRIPTION: This certificate program is very similar to the CIS degree program with the CCNA option. The primary difference is that the general education classes are not required as part of the certificate program. In addition the elective courses for the degree program are not required in the certificate program. These omissions will result in a narrower skill set for completers of this program versus the CIS degree program. However, the essential skills to prepare students for a career in the IT field as a computer and network technician are still taught as part of this program.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Demonstrate competence in the area of Cisco Networking. To demonstrate competence in this area the student will be able to build networks with the following features: three computers on a LAN using a switch; a router with passwords, interfaces, routing protocol configured; a switch with two VLANs and STP protocol; PPP encapsulation and PAP/CHAP authentication protocols between two routers connected with a serial link.

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*CIS – Network Administration Certificate
Program Learning Outcomes (continued):*

2. Demonstrate competence in the area of A+ computer maintenance. To demonstrate competence in this area the student will be able to: accurately identify and explain the function of the CPU, harddrive, RAM, CDROM drive, and video card of a PC.
3. Demonstrate competence in the area of Microsoft Networking. To demonstrate competence in this area the student will be able to: Install Windows Seven Professional; to Manage Users, Computers and Groups in Windows 2008 Server; to Implement, Manage and Maintain Name Resolution; to Plan and Implement Server Roles and Server Security; to Plan and Implement an Active Directory Infrastructure; to Create the Logical Design for an Active Directory Infrastructure; to Create the Logical Design for Network Infrastructure Security.
4. Demonstrate competence in the area of web page design and development. To demonstrate competence in these areas the student will develop and publish a 3-page web site to a server. The site must include the following elements: (1) appropriate overall design elements; (2) working hyperlinks among pages, to an outside site(s), and to an e-mail address; (3) a table; and (4) a form.
5. Demonstrate competence in the area of basic electronics. To demonstrate competence in this area the student will accurately test electronic components such as LED, 7Segment display, pushbutton, speaker and photo sensor, and correctly build circuits with the electronic components and program a microcontroller to manipulate the built circuits.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_cis_gainful_employment/.

CERTIFICATE REQUIREMENTS:

BUAD 45	Human Relations	3
CIS 2	Introduction to Computer Science	4
CIS 31	Cisco CCNA 1	3
CIS 32	Cisco CCNA 2	3
CIS 33	Cisco CCNA 3	3
CIS 34	Cisco CCNA 4	3
CIS 50	Windows 8 – Configuration	1
CIS 51	Managing and Maintaining Windows 8	1
CIS 52	Install and Configure Server 2012	1
CIS 53	Administering Server 2012	1
CIS 54	Configure Advanced Server 2012 Server	1
CIS 55	Exchange Server 2010, Configuring	1
CIS 90	A+ Certification Prep/Cisco IT Essentials I	4
CIS 92	Computer Safety	3
INDE 138	Fundamentals of Electronics	3

TOTAL UNITS FOR CERTIFICATE	35
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**Computer and Information Systems –
Web Design**

Certificate:

SC Program: CL.3115

PROGRAM DESCRIPTION: This program is designed to be an introduction to the basics of designing and building simple Web pages. The curriculum assists students, small business owners, office and IT workers, and hobbyists to design and maintain a presence on the Web.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved

through the California Community College Chancellor’s Office; therefore, completion of the certificate will not be listed on the student’s transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Use a computer and the internet for daily needs.
2. Build dynamic web pages for personal and business use.
3. Incorporate graphics and photos into web pages.
4. Understand e-commerce basics and how to design a marketable website.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_cis_gainful_employment/.

CERTIFICATE REQUIREMENTS:

ART 80A	Graphic Design	3
BUAD 71	Introduction to E-Commerce	1
CIS 2	Introduction to Computer Science	4
CIS 64	Web Programming Using Java/PHP/Flash	3
CIS 73	Photoshop	1
CIS 83	Web Design Using Dream Weaver	2
CIS 86	HTML	3

TOTAL UNITS FOR CERTIFICATE	17
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**Computer and Information Systems –
Windows Server**

Certificate:

SC Program: CL.3444

PROGRAM DESCRIPTION: This certificate will prepare students for employment in the field of information technology networking. Jobs in this sector include computer network technician, network administrator, network manager, data files manager, back-up operator, network security technician, etc.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor’s Office; therefore, completion of the certificate will not be listed on the student’s transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Plan an effective Windows Server Active Directory deployment.

CERTIFICATE REQUIREMENTS:

BUAD 45	Human Relations	3
CIS 2	Introduction to Computer Science	4
CIS 50	Windows 8 Configuring	1
CIS 51	Managing and Maintaining Windows 8	1
CIS 52	Install and Configure Server 2012	1
CIS 53	Administering Server 2012	1
CIS 54	Configure Advanced Server 2012 Server	1
CIS 55	Exchange Server 2010, Configuring	1

TOTAL UNITS FOR CERTIFICATE	13
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Computer Maintenance

Certificate:

SC Program: CL.3429

PROGRAM DESCRIPTION: The Computer Maintenance Certificate Program provides the exposure and training necessary to maintain and troubleshoot common microcomputer systems to the board level. This program provides hands-on training in basic electronics, DOS installation and operation, PC repair and computer management.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Identify and troubleshoot common problems with computer parts and how to solve the associated problems.
2. Describe the different types of memory, how each operate and installation procedure.
3. Install a Microsoft operating system and configure the computer as a typical workstation.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_cis_gainful_employment/.

CERTIFICATE REQUIREMENTS:

BUAD 45	Human Relations on the Job	3
CIS 2	Introduction to Computer Science	4
CIS 31	Cisco CCNA 1	3
CIS 90	A+ Certification Prep/Cisco IT Essentials I	4
INDE 138	Fundamentals of Electronics	3

TOTAL UNITS FOR CERTIFICATE	17
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Construction Technology

Associate in Science:

SC Program: AS.1165

PROGRAM DESCRIPTION: The curriculum prepares students for entry-level employment in the carpentry trade. Award of specific apprenticeship credit will depend on the employer, local union regulations, aptitude of student as well as curriculum completed. Under normal circumstances, credit for partial fulfillment of apprenticeship requirements can be attained.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Explain and demonstrate the use of appropriate personal protective equipment.
2. Identify other construction hazards on your job site, including hazardous material exposures, environmental elements, welding and cutting hazards, confined spaces, and fires.

3. Perform construction math with and without a calculator including adding, subtraction, multiply and divide whole numbers, fractions, percentages as well as decimals in the field.
4. Identify power tools commonly used in the construction trades.
5. Recognize relate and identify basic construction drawing terms, components, symbols and different classifications of construction drawings.
6. Calculate the quantities of lumber and wood products using industry-standard methods.

DEGREE REQUIREMENTS:

CORE COURSES:

CONS 52	Residential Estimating	3
CONS 53	Materials of Construction	3
CONS 54	Survey of the Building Industry	3
CONS 56	Essentials of Construction	3
CONS 84	Analysis of Construction Drawings/Specs	3
CONS 160	Carpentry Practices	5
CONS 161	Electrical, Plumbing and Mechanical Systems	5
CONS 178	Building Codes and Standards	3
ENER 50	Renewable Energy/Sustainable Development	2
INDE 1	Career Planning for Industrial Technology	1
WELD 70	Beginning Welding	3

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

Major	34
Additional General Education	21
General Electives	5
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Construction Technology Certificate:

SC Program: CT.3125

PROGRAM DESCRIPTION: The curriculum prepares students for entry-level employment in the carpentry trade. Award of specific apprenticeship credit will depend on the employer, local union regulations, aptitude of student as well as curriculum completed. Under normal circumstances, credit for partial fulfillment of apprenticeship requirements can be attained.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Explain and demonstrate the use of appropriate personal protective equipment.
2. Identify other construction hazards on your job site, including hazardous material exposures, environmental elements, welding and cutting hazards, confined spaces, and fires.
3. Perform construction math with and without a calculator including adding, subtraction, multiply and divide whole numbers, fractions, percentages as well as decimals in the field.

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Construction Technology Certificate (continued):

4. Identify power tools commonly used in the construction trades.
5. Recognize relate and identify basic construction drawing terms, components, symbols and different classifications of construction drawings.
6. Calculate the quantities of lumber and wood products using industry-standard methods.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_cons_gainful_employment/.

CERTIFICATE REQUIREMENTS:

CONS 52	Residential Estimating	3
CONS 54	Survey of the Building Industry	3
CONS 56	Essentials of Construction	3
CONS 84	Analysis of Construction Drawings/Specs	3
CONS 160	Carpentry Practices	5
CONS 161	Electrical, Plumbing and Mechanical Systems	5
CONS 178	Building Codes and Standards	3
MATH 100	Technical Applications of Mathematics	3

TOTAL UNITS FOR CERTIFICATE	28
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Customer Service Academy

Certificate:

SC Program: CL.3133

PROGRAM DESCRIPTION: The Customer Service Academy will equip you with the ability to manage or improve many workplace issues that, if addressed, will lead to improved business productivity. The topics range from conflict resolution to team building to communicating with people (both employees and customers). This is a short list of the ten (10) topics included in the academy. You can register for one or all of the academy topics, depending on the challenging issues you face either personally or professionally. Each course topic requires 9 hours of study and awards .5 units of elective academic credit.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and **application for completion of the certificate to Admissions and Records**, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office, therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. List ways in which to communicate more effectively to both internal and external customers.
2. Recognize conflict styles and manage conflict situations utilizing conflict resolution skills.
3. List ways to maintain/change your attitude in order to provide superior customer service.
4. Embrace change within organizations and apply skills to cope with change.
5. Self-assess individual attitude, stress, communication style, personality style and apply skills to work with team members who possess different styles.

REQUIREMENTS FOR CERTIFICATE:

BUAD 81	Stress Management in the Workplace	.5
BUAD 82	Managing Organizational Change	.5
BUAD 83	Conflict Resolution	.5
BUAD 84	Attitude in the Workplace	.5
BUAD 85	Customer Service in the Workplace	.5
BUAD 86	Decision Making and Problem Solving	.5
BUAD 87	Team Building	.5
BUAD 88	Communicating with People	.5
BUAD 89	Time Management	.5
BUAD 90	Values and Ethics	.5

TOTAL UNITS FOR CERTIFICATE	5
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Dental Hygiene

Associate in Science:

SC Program: AS.1173

PROGRAM DESCRIPTION: The Dental Hygiene Program is designed to train students to work as dental hygienists who have specific knowledge of the dental hygiene profession, a sophisticated level of thinking ability, and the positive character traits (i.e., responsibility, discipline, and initiative) necessary to succeed at any level in the workplace.

All courses in the program will employ an integrated teaching strategy that will include development of critical skills, competence in oral and written English communication, and competence in applied math for problem solving. In addition, all courses will provide a broad understanding of "all aspects of the field (industry)." The program will be articulated with various transfer institutions so that those students who choose to transfer for further study may do so.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

1. 95% of those students who are eligible to sit for the National Board Dental Hygiene Examination (NBDHE) will pass their examination on the first attempt.
2. Upon completion and passing the NBDHE, 90% of those students who are eligible to sit for the State Board Exam will pass their examination on the first attempt.

REQUIREMENTS FOR ENROLLMENT INTO THE PROGRAM:

Space in the program is limited. A new class is enrolled every fall semester. In order to be eligible for enrollment, students must file an enrollment packet with the Admissions office during a [designated enrollment period](#). All qualified applicants are offered enrollment on a space available basis in the order of their application ranking. Final selection of qualified applicants is competitive. Specific information is available in the [Selection Criteria tab](#) on the website.

Students must meet all the following requirements for application:

1. Students must have a high school diploma or its equivalent
2. The "Prerequisite Science" courses listed below must be competed with a grade of C or higher in each course and a minimum science 2.5 GPA.
3. Prerequisites must be completed upon application. No in-progress courses will be accepted.

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Dental Hygiene A.S. Degree (continued):

PREREQUISITE COURSES:

ANAT 1*	Anatomy	5
PHY 1*	Physiology (with Lab)	5
MICR 1*	Microbiology	5
ENGL 1A*	College Composition	4
CHEM 2A*	Introduction to Chemistry	5
CHEM 2B*	Introduction to Organic and Biochemistry	5
SOC 1*	Introduction to Sociology	3
PSYC 1A*	General Psychology	3
CMST 60*	Public Speaking OR	3
**CMST 10*	Interpersonal Communication	
FSS 25*	Nutrition	3

*May be used to fulfill General Education requirements.

** ONLY if completed with a grade of C or higher during or prior to Spring 2014.

TOTAL PREREQUISITE UNITS 41

HEALTH & SAFETY CLINICAL CLEARANCE:

Upon acceptance for enrollment, students must meet additional clinical requirements. All students participating in clinical experiences must submit proof of immunity of specific immunizations or serum titers, cleared criminal background check, negative drug screen, current physical examination and negative TB screening, and provide current valid Basic Life Support-Health Care Provider card (CPR) which includes adult, child & infant resuscitation with two person rescue and AED training). Students are financially responsible for meeting these requirements according to established program process. Specific information is available on the Health and Safety Requirements tab on the website or students may call the Division Office (530-339-3600)

GRADUATION REQUIREMENTS:

Students must graduate from the Dental Hygiene Program to be eligible to take the state licensing examination. Due to the time commitments of the program, it is strongly recommended that students complete the following additional requirements for graduation before beginning dental hygiene courses:

- Completion of the Humanities requirement.
- Completion of competence in mathematics. MATH 102 Intermediate Algebra or MATH 110 Essential Math are the advised courses for meeting this requirement.
- Completion of the multi-cultural awareness requirement.
- Completion of computer literacy.

DEGREE REQUIREMENTS:

Students must be enrolled in the Dental Hygiene Program in order to take the courses listed below. Students must show competence in all semester courses (with a grade of C or better) in order to progress through the curriculum. A failing grade in any theory or clinical course within a semester will require withdrawal or result in failure from the program.

CORE COURSES:

DNTL 10	Oral Biology	3
DNTL 11	Oral Radiology	3
DNTL 12	Head and Neck Anatomy	2
DNTL 13	Dental Health Education/Seminar	2
DNTL 14	Introduction to Clinic	4
DNTL 20	Local Anesthesia and Nitrous Oxide	2
DNTL 21	General and Oral Pathology	4
DNTL 23	Patient Management and Geriatrics	2
DNTL 24	Clinical Practice I	4
DNTL 25	Clinic I Seminar	2
DNTL 26	Nutrition in Dentistry	1
DNTL 30	Periodontology I	3

DNTL 31	Pharmacology	2
DNTL 32	Dental Materials	2
DNTL 33	Advanced Clinical Topics	2
DNTL 34	Clinical Practice II	4
DNTL 35	Clinic II Seminar	1
DNTL 40	Periodontology II	1
DNTL 41	Practice and Financial Management	1
DNTL 42	Clinic III Seminar	2
DNTL 43	Clinical Practice III	4
DNTL 44	Community Oral Health	3
DNTL 45	Ethics and Jurisprudence	2

TOTAL MAJOR UNITS: 56

*May be used to fulfill General Education requirements.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

Major	97
Additional General Education	6
General Electives	0
Degree Total	103*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Diesel Technology

Associate in Science:

SC Program: AS.1175

PROGRAM DESCRIPTION: This curriculum prepares the student for entry into the mechanic trade related to heavy equipment and diesel engines. Award of apprenticeship credit for completion of the program will depend on the employer, local union regulations, aptitude of student, as well as the curriculum completed. The Diesel Technology major requires technical courses to satisfy the minimum requirements for the major. Students are encouraged to take as many technical courses and related electives as their program will permit. When necessary, auto mechanic courses and diesel courses may be interchanged to satisfy major requirements.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. With an emphasis on general education, explain the basic theory of the subject matter or system for the course of instruction based on industry standards.
2. With an emphasis on general education, analyze a scenario based upon an equipment system failure / problem / complaint.
3. With an emphasis on general education, employ a systematic approach to troubleshooting a system malfunction and prepare a solution.
4. With an emphasis on general education, demonstrate the correct tools/supplies required to diagnose/repair a malfunction.
5. With an emphasis on general education, verify if the path of repair was correct by testing and/or completing a work order/report.

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Diesel Technology A.S. Degree (continued):

DEGREE REQUIREMENTS:

CORE COURSES:

DIES 48	Hydraulics	3.5
DIES 49	Advanced Hydraulics	3
DIES 94	Worksite Learning For Diesel Technology	1
DIES 160	Diesel Engine Electronic Control	4
DIES 161	Diesel Technology Field Training	2
DIES 162	Heavy Duty Power Train	4
DIES 164	Diesel Performance Analysis	4
DIES 166	Diesel Engines	6
DIES 170	Heavy Duty Braking Systems	4
ENGL 1A*	College Composition	4
INDE 1	Career Planning for Industrial Tech.	1
MATH 110*	Essential Math	3
WELD 70	Beginning Welding	3
WELD	73, 170, 171, 174, 175 or 178	3

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:	
Major	45.5
Additional General Education	15
General Electives	0
Degree Total	60.5*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Diesel Technology Certificate:

SC Program: CT.3134

PROGRAM DESCRIPTION: This curriculum prepares the student for entry into the mechanic trade related to heavy equipment and diesel engines. Award of apprenticeship credit for completion of the program will depend on the employer, local union regulations, aptitude of student, as well as the curriculum completed.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Explain the basic theory of the subject matter or system for the course of instruction based on industry standards.
2. Analyze a scenario based upon an equipment system failure/problem/ complaint.
3. Employ a systematic approach to troubleshooting a system malfunction and prepare a solution.
4. Demonstrate the correct tools/supplies required to diagnose/repair a malfunction.
5. Verify if the path of repair was correct by testing and/or completing a work order/report.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_dies_gainful_employment/.

CERTIFICATE REQUIREMENTS:

DIES 48	Hydraulics	3.5
DIES 49	Advanced Hydraulics	3
DIES 94	Worksite Learning For Diesel Technology	1-4
DIES 160	Diesel Engine Electronic Control	4
DIES 161*	Diesel Technology Field Training	2
DIES 162	Heavy Duty Power Train	4
DIES 164	Diesel Performance Analysis	4
DIES 166*	Diesel Engines	6
DIES 170	Heavy Duty Braking Systems	4
ENGL 190	Reading & Writing II	4
INDE 1	Career Planning for Industrial Tech.	1
MATH 100	Technical Applications of Mathematics	3
WELD 70	Beginning Welding	3
WELD	73, 170, 171, 174, 175 or 178	3

TOTAL UNITS FOR CERTIFICATE	45.5 – 48.5
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Dietary Service Supervisor

Certificate:

SC Program: CL.3431

Students interested in this certificate should contact the Health Sciences Division Dean at (530) 339-3609.

PROGRAM DESCRIPTION: The Dietary Service Supervisor program is designed to prepare students to work in a supervisory role in the food and nutrition services area of the healthcare industry. Graduates of the Shasta College DSS program can lawfully use the title of Dietetic Service Supervisor, as described in CA State Law, Title 22.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

1. Identify the location of applicable laws and regulations and determine compliance to regulatory requirements (state and federal). Determine acceptable standards of care in dietary services. Includes but not limited to California Code of Regulations, Title 22; Federal Code of Regulations; Business and Professions Code of Dietitians and Dietetic Technicians, Registered; and Food and Drug Administration Food Code.
2. Identify the role and limitations (no scope of practice) of the Dietary Service Supervisor under law (Title 22) for the Operation of Food Service.
3. Participate with the Registered Dietitian in the timely review and revision of the facility's policies and procedures to ensure that they are in compliance with regulations and standards of practice. Identify location of Diet Manuals.
4. Assist in the orientation of new employees. Assist in the ongoing, planned staff development of seasoned employees to ensure that they are competent to carry out the functions of the dietary service and trained in approved policies.
5. Assist in the development of Quality Assurance Programs to monitor staff practices for compliance, to determine training needs, and to evaluate resident/patient satisfaction.
6. Assist in the development of planned menu (and disaster menus) to meet the nutritional needs of resident/patients in accordance with the recommended dietary allowances. Ensure that therapeutic menus and standardized recipes are followed, as approved by R.D.

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Dietary Service Supervisor Certificate
Program Learning Outcomes (continued):

7. Ensure that food is served by methods that conserve nutritive value, flavor and appearance. Ensure that food is prepared in a form designed to meet individual needs and substitutions are of similar nutritive value.
8. Ensure that residents/patients receive and consume foods in the appropriate form as prescribed by the physician who is lawfully authorized to prescribe. Ensure that there is accommodation of food preferences, maintenance of current profile cards are maintained, and provide assistive devices as needed.
9. Ensure that food is stored, prepared, distributed, and served under sanitary conditions to prevent food borne illness. This includes the sanitation oversight of areas assigned to other departments such as the cleaning & sanitizing of internal components of the ice machine & nurse pantry refrigerators, trash disposal systems.
10. Ensure that the department runs smoothly (including the food ordering and storage according to applicable state requirements), staffing schedules, employee health, labor relations, safety programs and other duties as assigned by administration.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at www.shastacollege.edu/specs_dss_gainfulemployment.

REQUIREMENTS FOR CERTIFICATE:

CULA 50	Sanitation and Safety	2
DSS 10	Food Production Management	3
DSS 63	DSS Operations and Management	3
DSS 94	DSS Certificate Worksite Learning	3
FSS 25	Nutrition	3
FSS 27	Nutrition and Disease	2

TOTAL UNITS FOR CERTIFICATE	16
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Early Childhood Education

Associate in Science:

SC Program: AS.1190

PROGRAM DESCRIPTION: The Early Childhood Education Program prepares students to become teachers and directors in programs providing care and learning opportunities for young children. The college courses focus on training for careers in preschools, Head Start, childcare, infant-toddler and school age care, and family childcare. Programs for young children require different qualifications for teachers and child care providers. The A.S. Degree in Early Childhood Education at Shasta College meets course work qualifications for the Child Development Teacher Permit Level and Title 22 staff qualifications for a teacher and director. Additional specified experience with children is required.

The Shasta College Early Childhood Education Program is participating in a statewide Curriculum Alignment Project between California Community Colleges and participating CSU and UC systems. A twenty-four unit core of eight specific Early Childhood Education courses will articulate with participating four year degree programs in Child Development and Early Childhood Education.

There are a minimum of 44 units in the major required for the Associate Science Degree in Early Childhood Education. Students need to complete core-required courses (38 units) and an additional 6 units of restricted elective courses. Twenty-one (21) General Education units will complete the Associate of Science degree in Early Childhood Education. All courses applied to the ECE A.S. Degree must be completed with a "C" grade or better.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Apply an understanding of principles of child development in planning inclusive and developmentally appropriate curriculum and environments.
2. Exhibit skill in observation and documentation as a vehicle for child and program assessment and curriculum design.
3. Create environments that are healthy, respectful and supportive to children and their families.
4. Utilize positive guidance of young children based on an understanding of cognitive, physical, and social and emotional development of children.
5. Identify professional standards and expectations as based upon NA EYC'S Code of Ethical Conduct.
6. Discuss current trends and issues in the field of Early Childhood Education.
7. Perform common tasks online and access resources and information in regard to current best practices in early education.
8. Identify and exhibit the ability to interact successfully with children and adults from an ever changing society.

DEGREE REQUIREMENTS:

CORE COURSES:

ECE 1 *	Human Development OR	3
ECE 9 *	Child Growth and Development	
<i>(ECE 9 is recommended for students planning to transfer to a 4 year program for a degree in Early Childhood Education or Child Development)</i>		

ECE 2 *	Child, Family, Community	3
ECE 3	Early Childhood Program Administration	3
ECE 7	Early Childhood Observation & Assessment	3
ECE 8	Teaching Practicum for Young Children	5
ECE 15	Child Health, Safety and Nutrition	3
ECE 17	Principles/Practices of Teaching Young Children	3
ECE 20	Introduction to Curriculum	3
ECE 28 *	Teaching in a Diverse Society	3
ECE 30	E.C. Curriculum: Physical Development	3
ECE 50	E.C. Curriculum: Cognitive Development	3
ECE 52	Guidance in Adult-Child Relations	3

RESTRICTED ELECTIVES: (Choose six units) 6

ECE 6	Exploring Family Childcare (1)	
ECE 10	Early Childhood Learning (3)	
ECE 12	Infant-Toddler Learning (3)	
ECE 14	School Age and Adolescent Development (3)	
ECE 16	Fundamentals of EC Mentoring & Supervision (2)	
ECE 22	EC Curriculum: Infant/Toddler Care (3)	
ECE 24	EC Curriculum: School Age Care (3)	
ECE 26	The Child With Special Needs (3)	
ECE 27	Teaching Children with Special Needs (3)	
ECE 40	E.C. Curriculum: Affective Development (3)	
ECE 51	Early Childhood Staffing and Management (3)	
ECE 140	Essentials of 40 Developmental Assets (1)	
ECE 147	Mental Health Awareness in ECE Programs (1)	
ECE 152	The Young Child: Movement, Rhythm, and Singing (1)	
ECE 155	The Young Child: Intro to the Montessori Method (1)	

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Early Childhood Education A.S. Degree (continued):

ECE graduates are qualified to work with children ages 0-5. However, it is recommended that students meet the additional 5-unit requirement by selecting and completing one of the following Specializations (Infant/Toddler School-Age, or Special Needs in ECE). A Specialization is required for the Master Teacher Level of the Child Development Permit, issued by the California Commission on Teaching Credentialing. Associate and Teacher Levels do not require a Specialization.

INFANT/TODDLER TEACHING SPECIALIZATION

ECE 12	Infant-Toddler Learning	3
ECE 22	E.C. Curriculum: Infant/Toddler Care	3

SCHOOL-AGE TEACHING SPECIALIZATION

ECE 14	School-Age and Adolescent Development	3
ECE 24	E.C. Curriculum: School-Age Care	3

**SPECIAL NEEDS IN EARLY CHILDHOOD EDUCATION/
EARLY INTERVENTION SPECIALIZATION**

ECE 26	The Child with Special Needs	3
ECE 27	Teaching Children with Special Needs	3

*May be used to fulfill General Education requirements.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:	
Major	44
Additional General Education	15
General Electives	1
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Early Childhood Education Certificate:

SC Program: CT.3451

PROGRAM DESCRIPTION: The Early Childhood Education Certificate will offer students initial training to work with young children. After completion of the 26-unit certificate requirements, the student will qualify for employment as an entry-level teacher in private child care settings licensed through the Department of Social Services. The Early Childhood Education Certificate course work also meets the training requirements for the Child Development Associate Teacher Permit issued by the California Commission on Teacher Credentialing. All certificate requirements must be completed with a "C" grade or better.

This 26 unit certificate is intended to fulfill the ECE requirement of a lower-division program of study that can transfer to the CSU system. With additional coursework, both at lower-division and upper-division levels, it prepares the student for in-depth coursework toward higher degree attainment. When the 26-unit certificate is combined with 16 General Education units, it qualifies the student for a Child Development Permit issued by the Office of Teacher Credentialing, at the Teacher level.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Apply an understanding of principles of child development in planning exclusive and developmentally appropriate curriculum environments.
2. Exhibit skills in observation and documentation as a vehicle for child and program assessment curriculum design.
3. Create environments that are healthy, respectful, and supportive to children and their families.
4. Utilize positive guidance of young children based on an understanding of cognitive, physical, and social and emotional development of children.
5. Establish and maintain safe and healthy learning environments for young children.
6. Upon completion of the ECE Certificate, students will, through planned and sequenced field experiences, develop the knowledge, skills and professional dispositions necessary to promote the development and learning of young children.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at www.shastacollege.edu/specs_ece_ececert_gainfulemployment/.

CERTIFICATE REQUIREMENTS:

ECE 2	Child, Family, Community	3
ECE 7	Early Childhood Observation and Assessment	3
ECE 8	Teaching Practicum for Young Children	5
ECE 9	Child, Growth and Development	3
ECE 15	Child Health, Safety and Nutrition	3
ECE 17	Principles/Practices of Teaching Young Children	3
ECE 20	Introduction to Curriculum	3
ECE 28	Teaching in a Diverse Society	3

TOTAL UNITS FOR CERTIFICATE	26
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Early Childhood Education – Family Childcare

Certificate:

SC Program: CL.3154

PROGRAM DESCRIPTION: The Early Childhood Education Family Childcare Certificate offers students initial training for employment as a family childcare provider. After completion of the 17-unit certification program, the student will be prepared to seek a family childcare provider position or family childcare licensure (assuming ability to pass Community Care Licensing [Social Services Dept.] requirements related to physical site).

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and **application for completion of the certificate to Admissions and Records**, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of the certificate, the student should be able to:

1. Apply principles of child development in planning inclusive and developmentally appropriate curriculum and environments.

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*Early Childhood Education – Family Childcare Certificate
Program Learning Outcomes (continued):*

2. Utilize positive guidance of young children based on an understanding of cognitive, social and emotional development of children.
3. Create environments that are healthy, respectful and supportive to children and their families.
4. Identify and analyze the elements of professionalism and its importance in family childcare settings.
5. Complete class exercises applying management and operation knowledge by developing an operational structure of a mock family childcare setting.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at www.shastacollege.edu/specs/ece_fccert_gainfulemployment/.

Follow the suggested sequence of courses listed below along with the Shasta College catalog. All courses to be applied to the Early Childhood Education Family Childcare Certificate must be completed with a “C” grade or better.

CERTIFICATE REQUIREMENTS:

CORE COURSES:

ECE 1	Human Development OR	3
ECE 9	Child Growth and Development	
ECE 2	Child, Family, Community	3
ECE 6	Exploring Family Childcare	1
ECE 52	Guidance in Adult-Child Relations	3

RESTRICTED ELECTIVES: (Choose two courses) 6

ECE 12	Infant/Toddler Learning (3)
ECE 14	School-Age Learning (3)
ECE 17	Principles/Practices of Teaching Young Children (3)
ECE 20	Introduction to Curriculum (3)
ECE 22	EC Curriculum: Infant/Toddler Care (3)
ECE 24	EC Curriculum: School Age Care (3)
ECE 26	The Child With Special Needs (3)
ECE 27	Teaching Children with Special Needs (3)
ECE 28	Teaching in a Diverse Society (3)

TOTAL UNITS FOR CERTIFICATE	16
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**English as a Second Language
Certificate of Completion**

Certificate:

SC Program: NCR.1001

PROGRAM DESCRIPTION: This certificate of completion is comprised of six non-credit courses that range from ESL beginning to advanced. These non-credit courses generally serve our immigrant population who seek language skills for employment and daily living. Instruction follows a communication-based approach to language learning. The last level in this sequence, ESL 336, acts as a transition course for students who want to pursue academic studies.

This certificate is approved through the California Community College Chancellor’s Office. Upon satisfactory completion of the listed requirements and filing an application for graduation with Admissions and Records, the student’s transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Meet three of the four course level student learning outcomes for the highest level course in the Program, ESL 236 or ESL 336.

REQUIRED NON-CREDIT COURSES:

ESL 331	Beginning Low
ESL 332	Beginning High
ESL 333	Intermediate
ESL 334	Intermediate High
ESL 336	Advanced

Family Studies

Associate in Science:

SC Program: AS.1225

PROGRAM DESCRIPTION: This program is designed to provide students with foundational skills and concepts about human interaction within the primary social, cultural, and economic system of our society – the family. Individual and family issues that arise from changing societal patterns have created a vast need for a variety of support services. Students with an A.S. Degree in Family Studies will have the opportunity to enter the Human Services field in a number of paraprofessional positions, and with additional coursework would be prepared to transfer to a four-year college/university with lower division preparation for a Bachelor’s of Social Work.

This degree is approved through the California Community College Chancellor’s Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student’s transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Identify the impact of the context (historical, cultural, societal, and/or familial) on individuals as they develop, as well as the reciprocal influences, and apply this understanding when analyzing human behavior.
2. Integrate the perspectives of continuity and change, multidirectional pathways, and resiliency when evaluating the process of personal and interpersonal development throughout the lifespan.
3. Identify crucial elements of various systems perspectives and apply these concepts in the analysis of specific situations.
4. Reflect a critical awareness of current issues and valid scientific research in the field of Family Studies/Human Services.
5. Create a comprehensive action plan that reflects both personal and interpersonal effectiveness within the physical, mental, financial and psychosocial domains.
6. Differentiate between personal values and professional guidelines/ethics established within the field of Human Services.
7. Complete at least one semester of guided, practical experience in the workplace that integrates classroom experience with professional training.

DEGREE REQUIREMENTS:

The student must complete the Core Courses listed below, required General Education, and electives to total 60 units to complete the A.S. Degree requirements. Some major courses may be double counted toward the General Education unit requirement. Students planning to transfer to a Social Work Baccalaureate Program should consider utilizing available General Education units and elective units to complete the specific lower division requirements of the transfer school of their choice. It is imperative to consult the catalog of that institution.

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Family Studies A.S. Degree Core Courses (continued):

CORE COURSES:

CMST 10*	Interpersonal Communication	3
ECE 1*	Human Development	3
ECE 2*	Child, Family and Community	3
FSS 10	Introduction to Human Services	3
FSS 12	Standards and Practices in Human Services	3
FSS 14	Introduction to Case Management	3
FSS 16*	Marriage & Family	3
FSS 18*	Adulthood and Aging	3
FSS 25*	Nutrition OR	3
BIOL 5*	Introduction to Human Biology	
FSS 46*	Personal Finance OR	3
ECON 1A*	Principles of Economics (MICRO) OR	
ECON 1B*	Principles of Economics (MACRO)	
FSS 60*	Life Management	3
FSS 94	Family Studies & Services Worksite Learning	1-4
PSYC 1A*	General Psychology	3
PSYC 41*	Cultural/Social Context of Childhood	3
SOC 1*	Introduction to Sociology	3
SOC 70*	Social Welfare	3

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:	
Major	46-49
Additional General Education	9
General Electives	2-5
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Fire Technology

Associate in Science:

SC Program: AS.1240

PROGRAM DESCRIPTION: The Fire Technology curriculum is planned to serve both as an in-service program and as a pre-employment two-year program for community college students aspiring to enter the field of firefighting. Fire Technology majors may be required to fulfill a tour of duty at a local fire station. The suggested course sequence has been supplied to the Counseling Division by the Instructional Division. Students are urged to use this outline along with the Shasta College catalog. Particular attention should be paid to course prerequisites and to whether a class is taught Fall or Spring semester or both. Courses listed may be offered either spring or fall semesters, or at the discretion of the division.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Possess the necessary skills, knowledge and abilities to enter the fire service or to increase skills, knowledge and abilities for those already employed as a firefighter.

DEGREE REQUIREMENTS:

CORE COURSES:

BIOL 5*	Introduction to Human Biology	3
CMST*	CMST 10, 20, 54 or 60	3
FAID 175	EMT I Basic	5
FIRS 70	Fire Protection Organization	3
FIRS 71	Fire Behavior and Combustion	3
FIRS 72	Fire Prevention Technology	3
FIRS 74	Fire Protection Equipment and Systems	3
FIRS 79	Fundamentals of Personal Fire Safety	3
FIRS 85	Fire Command IA	2
FIRS 86	Building Construction for Fire Protection	3
FIRS 101	Career Placement	1
FIRS 189	Fire Investigation I	2
FSS 25*	Nutrition	3

*May be used to fulfill General Education requirements.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:	
Major	37
Additional General Education	12
General Electives	11
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Firefighter 1

Certificate:

SC Program: CT.3444

PROGRAM DESCRIPTION: Firefighter 1 includes everything necessary to; learn the essential skills, obtain the required knowledge and abilities to perform at the entry level in a volunteer or paid fire department as a firefighter in the State of California. This Academy adheres to the curriculum as required by the California State Fire Marshal's Office (CAL-FIRE) for certification by their office as a "Certified Firefighter 1". Certification is obtained only after successful completion of the Firefighter 1 Academy, and a minimum of six months full time employment with an organized, paid fire department, or twelve months of part time employment with an organized volunteer fire department. Upon successful completion of the Academy and the required work time, the Chief of the department in which the student works verifies successful work completion and the student makes application for their California State Firefighter 1 Certificate.

The Firefighter 1 Academy is an intense program including rigorous physical conditioning, English designed for firefighters as well as classroom and field training with the same tools and appliances used by the fire service. During the later portion of the academy students earn a State Fire Marshal Certificate for "Fire Control Three" as part of their Live Fire Training. The course also includes Emergency Medical Responder in which the students earn certification from the California Emergency Medical Authority.

Note: No college in California certifies individuals as Firefighter 1 or Firefighter 2. All certifications are issued by the California State Fire Marshal.

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Firefighter 1 Certificate (continued):

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Demonstrate the basic knowledge, skills and abilities to safely perform the tasks required to become an entry level firefighter.

CERTIFICATE REQUIREMENTS:

FIRS 104 Firefighter I Academy 21

TOTAL UNITS FOR CERTIFICATE	21
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Students wishing to apply for California State Fire Marshal's Office Firefighter I or II certification must meet the following criteria:

- Complete the required coursework as outlined by the State Fire Marshal's Office.
- Work a minimum of either six months as a paid full-time firefighter or 12 months as a volunteer.
- A recommendation and signature on appropriate form from the Fire Chief of the department that a student works for or volunteers at is a mandatory requirement.

Note: No college in California certifies individuals as Firefighter 1 or Firefighter 2. All certifications are approved by the California State Fire Marshal's Office.

Firefighter 2

Certificate:

SC Program: CT.3445

PROGRAM DESCRIPTION: The Firefighter 2 certification entails advanced knowledge, skills and abilities gained only after the completion of the Firefighter 1 Academy and the required employment interval with an organized volunteer or paid fire department in the state of California. These advanced skills, knowledge and abilities are presented during the Firefighter 2 academy at Shasta College. The successful completion of this Firefighter 2 academy allows the student to operate at a "journeyman level" as a firefighter.

Note: No college in California certifies individuals as Firefighter 1, or Firefighter 2. All certifications are issued by the California State Fire Marshal.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Demonstrate advanced knowledge, skills and abilities to safely perform the tasks required to become an advanced firefighter.

CERTIFICATE REQUIREMENTS:

FIRS 104 Firefighter I Academy 21
 FIRS 108 Firefighter II Academy 5

TOTAL UNITS FOR CERTIFICATE	26
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Students wishing to apply for California State Fire Marshal's Office Firefighter I or II certification must meet the following criteria:

- Complete the required coursework as outlined by the State Fire Marshal's Office.
- Work a minimum of either six months as a paid full-time firefighter or 12 months as a volunteer.
- A recommendation and signature on appropriate form from the Fire Chief of the department that a student works for or volunteers at is a mandatory requirement.

Note: No college in California certifies individuals as Firefighter 1 or Firefighter 2. All certifications are approved by the California State Fire Marshal's Office.

Fire Technology – Wildland Firefighter 1 Academy

Certificate:

SC Program: CL.3434

PROGRAM DESCRIPTION: Students completing this certificate will have the basic firefighting training as required by the U.S. Forest Service and California Department of Forestry for seasonal or permanent employment in fire fighting. This Academy provides the students with all the required knowledge, skills and abilities as required and dictated by the United States Forest Service (USFS) and the California Department of Forestry and Fire Protection (CDF or Cal-Fire) for a certificate required by those two wildland fire agencies for seasonal wildland firefighter employment. The focus of this academy is wildland fire control and safety in the wildland fire environment. Students who successfully complete this academy obtain the very basic skills, knowledge, and abilities to perform at the entry level as a wild land firefighter. More advanced wild land courses are contained in the Shasta College Course Catalog. Both the State and Federal wildland Fire Agencies provide their own more advance training once employment is obtained. Note; Successful completion of the Wildland Firefighter 1 Academy does not assure employment with the USFS or CAL-FIRE.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Demonstrate the basic knowledge, skills and abilities to safely perform the tasks required by the United States Forest Service and the California Department of Forestry and Fire Protection (CAL Fire) as an entry level wildland firefighter.

CERTIFICATE REQUIREMENTS:

FIRS 73 Wildland Firefighter I Academy 4

TOTAL UNITS FOR CERTIFICATE	4
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Hospitality – Baking – Culinary Arts Emphasis

Certificate:

SC Program: CL.3245

PROGRAM DESCRIPTION: This certificate provides a foundation in business mathematics, safety and sanitation principles and practices for personal and institutional application, and fundamental baking skills for students who intend to specialize in baking and pastry making for commercial production. Production of yeast and quick breads, cakes, cookies, pies, and pastries, as well as decorating and icings are undertaken. This certificate provides a base for students interested in basic baking techniques and who are also interested in moving forward with additional skills in the Culinary Arts field.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and **application for completion of the certificate to Admissions and Records**, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Explain and apply sanitation guidelines related to food handling.
2. Problem-solve recipe calculations associated with baked goods and pastry production.
3. Define and describe classic cooking terminology associated with baking.
4. Demonstrate health and safety and hand tool usage.
5. Demonstrate usage of a calculator to determine accurate recipe costing of baked goods.

CERTIFICATE REQUIREMENTS:

BUAD 106	Business Math or Math Placement Level 3 or higher	3
CULA 50	Safety and Sanitation2	
CULA 172	Baking	2

TOTAL UNITS FOR CERTIFICATE	4-7
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Hospitality – Bartender – Culinary Arts Emphasis

Certificate:

SC Program: CL.3246

PROGRAM DESCRIPTION: Students completing this certificate will be able to apply safety and sanitation principles and practices for a beverage operation, describe service skills for wine, beer, and spirits products, and identify wines from the wine districts of California, France, Germany, and Italy. This certification will provide knowledge and skills for those entering a new position and for those interested in sharpening their skills in a current position. **Limitation on enrollment: Students must be 21 years of age or older to complete this certificate.**

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and **application for completion of the certificate to Admissions and Records**, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Describe commonly used beverages and their recipes used in the hospitality industry.
2. Define the differences between spirits, wines, fortified wines, and liquors.
3. Describe the winemaking and beer-making process.
4. List and describe the major winemaking regions of the United States and Europe.
5. Explain and apply sanitation guidelines related to beverage handling in an hospitality organization.

CERTIFICATE REQUIREMENTS:

CULA 50	Safety and Sanitation	2
CULA 60	Beverage Management	2
CULA 73	Introduction to Wine	2

TOTAL UNITS FOR CERTIFICATE	6
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Hospitality – Dining Room Management – Culinary Arts Emphasis

Certificate:

SC Program: CL.3248

PROGRAM DESCRIPTION: This certificate provides a foundation for students interested in entry level dining room management. In addition to an overview of the hospitality industry, areas of focus will include legal aspects of hospitality operations, principles of safety and sanitation, skills for delivery of effective service in a dining room environment, theory of wine sales and service, and business mathematics.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and **application for completion of the certificate to Admissions and Records**, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Describe the flow of service between a dining room and kitchen in a restaurant environment.
2. Assess staffing needs based upon levels of projected business.
3. Illustrate safety and sanitation practices in food and beverage handling.
4. Describe wine sales and service techniques in a dining room.
5. Plan an effective dining room layout design for staffing and service.

CERTIFICATE REQUIREMENTS:

BUAD 106	Business Math or Math Placement Level 3 or higher	3
CULA 50	Safety and Sanitation	2
CULA 65	Dining Room Service	3
CULA 73	Introduction to Wine	2
HOSP 10	Introduction to Hospitality	3
HOSP 45	Restaurants, Hotels, and Lawful Management	2

TOTAL UNITS FOR CERTIFICATE	12 – 15
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Hospitality – Dining Room Staff – Culinary Arts Emphasis

Certificate:

SC Program: CL.3249

PROGRAM DESCRIPTION: Students completing this certificate will have practiced and demonstrated basic skills for front-of-the-house service in a live food and beverage operation. Additionally, students will apply principles of safety and sanitation and business mathematics. This certificate provides skills necessary for an entry-level food service position.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Illustrate safety and sanitation practices in food and beverage handling.
2. Describe the flow of service between a dining room and kitchen in a restaurant.
3. Plan an effective dining room layout design for staffing and service.
4. Assess staffing needs based upon levels of projected business.
5. Describe the sequence of service associated with exemplary dining room service.

CERTIFICATE REQUIREMENTS:

BUAD 106	Business Math or Math Placement Level 3 or higher	3
CULA 50	Safety and Sanitation	2
CULA 65	Dining Room Service	3

TOTAL UNITS FOR CERTIFICATE	5 – 8
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Hospitality – Line Cook – Culinary Arts Emphasis

Certificate:

SC Program: CL.3251

PROGRAM DESCRIPTION: This certification prepares a student with the basic skills to be a line cook in a food operation. Students will recognize the importance of safety and sanitation, prepare food, demonstrate plate presentations, use weights and measures, and interpret recipes.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Explain and apply sanitation guidelines related to food handling.
2. Demonstrate station organization, purchasing, storage, menu writing, and sanitation principles.

3. Calculate operation budget, various food and labor costs, menu pricing, inventory controls, and forecasting.
4. Demonstrate production line management and organization.
5. Identify and apply guidelines for handling of meats, dairy products, fresh produce, and bakery items.

CERTIFICATE REQUIREMENTS:

CULA 45	Basic Food Production	5
CULA 46	Advanced Foods	5
CULA 50	Safety and Sanitation	2
HOSP 10	Introduction to Hospitality	3

TOTAL UNITS FOR CERTIFICATE	15
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Hospitality – Winemaking and Marketing

Certificate:

SC Program: CL.3253

PROGRAM DESCRIPTION: The Winemaking and Marketing Certificate is designed to provide students with hands-on experience in winemaking, viticultural practices, and wine analysis. It is intended for the entrepreneur exploring business opportunities in the grape wine industry, and/or the prospective small winery employee, as well as the home winemaker, interested in career or skills development. Hands-on winemaking from crush through fermentation, sensory evaluation, product marketing, and food and wine pairing will be covered.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Define fundamental concepts of winemaking and marketing.
2. List and describe all basic tasks required for winemaking.
3. Assess results from different sensory evaluation techniques winetasting.
4. Apply principles of wine chemistry.
5. Define principles associated with creation and maintenance of a vineyard.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at www.shastacollege.edu/specs/cula_winecert_gainfulemployment/.

CERTIFICATE REQUIREMENTS:

AGEH 94	Horticulture Worksite Learning	1
AGVIT 80	Vineyard Design and Construction	1
AGVIT 81	Vineyard Care	1
CULA 66	Wine With Food	2
CULA 73	Introduction to Wine	2
CULA 74	Wine Making I	2
CULA 76	Wine Making II	2
CULA 78	Sensory Evaluation of Wine	2
CULA 80	Wine Sales and Marketing	3
CULA 88	Wines of the North State	1

TOTAL UNITS FOR CERTIFICATE	17
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Hospitality Management – Culinary Arts Concentration

Associate in Science:

SC Program: AS.1292

PROGRAM DESCRIPTION: With this degree, graduates enter the culinary field well prepared for entry-level employment, many progressing to management positions. Students will apply principles in sanitation and safety, hospitality, basic food production, nutrition, management, advanced cuisine, and gourmet food preparation. Business communications and general education requirements are also required for the degree. Hands-on worksite learning provides the student additional experience in the field.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Prepare workstations, corresponding to the preparation and presentation of a meal, in a time-restricted quality-minded setting.
2. Prepare large scale quantity items in a time-restricted quality-minded setting.
3. Practice the principles of sanitation and safety procedures.
4. Recognize the types of gourmet foods served in hotels and restaurants and the presentation of these specialties.
5. Demonstrate the principles of the garde-manger section of the kitchen.

DEGREE REQUIREMENTS:

CORE COURSES:

BUAD 66*	Business Communications	3
CULA 45	Basic Food Production	5
CULA 46	Advanced Foods	5
CULA 48	Gourmet Food Preparation	3
CULA 49	Menu Planning and Cost Analysis	2
CULA 50	Sanitation and Safety	2
CULA 55	Purchasing	2
CULA 60	Beverage Management	2
CULA 65	Dining Room Service	3
CULA 75	Pastry	2
CULA 94	Culinary Arts Worksite Learning	1
CULA 159	Stocks, Soups, Sauces & Basic Culinary Prep.	2
CULA 161	The Art of Garde Manger	2
CULA 172	Baking	2
FSS 25*	Nutrition	3
HOSP 10	Introduction to the Hospitality Industry	3
HOSP 65	Hospitality Supervision	3

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:	
Major	45
Additional General Education	15
General Electives	0
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Hospitality Management – Culinary Arts Concen. Certificate:

SC Program: CT.3246

PROGRAM DESCRIPTION: With this certificate, students will enter the Culinary Arts field and should be able to demonstrate principles in sanitation and safety, hospitality, basic food production, nutrition, and business mathematics. Additional skills will be applied in beverage management, advanced foods, menu planning and cost analysis, human resources management, purchasing, dining room service, baking, supervision, garde manger, and actual worksite learning.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Prepare workstations, corresponding to the preparation and presentation of a meal, in a time-restricted quality-minded setting.
2. Prepare large scale quantity items in a time-restricted quality-minded setting.
3. Practice the principles of sanitation and safety procedures.
4. Recognize the types of gourmet foods served in hotels and restaurants and the presentation of these specialties.
5. Demonstrate the principles of the garde-manger section of the kitchen.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at www.shastacollege.edu/specs_cula_culacert_gainfulemployment/.

CERTIFICATE REQUIREMENTS:

BUAD 106	Business Mathematics	3
CULA 45	Basic Food Production	5
CULA 46	Advanced Foods	5
CULA 48	Gourmet Foods Preparation	3
CULA 49	Menu Planning and Cost Analysis	2
CULA 50	Sanitation and Safety	2
CULA 55	Purchasing	2
CULA 60	Beverage Management	2
CULA 65	Dining Room Service	3
CULA 94	Culinary Arts Worksite Learning	2
CULA 159	Stocks, Soups, Sauces and Basic Culinary Prep.	2
CULA 161	The Art of Garde Manger	2
CULA 172	Baking	2
FSS 25	Nutrition	3
HOSP 10	Introduction to the Hospitality Industry	3
HOSP 65	Hospitality Supervision	3

TOTAL UNITS FOR CERTIFICATE	44
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Hospitality Management – Hotel/ Restaurant Management Concentration

Associate in Science:

SC Program: AS.1294

PROGRAM DESCRIPTION: The course of study in hospitality management includes instruction in hotel and restaurant operations designed to prepare students for various positions in the hospitality industry. What interests many prospective students in this field of study is the extraordinary range of management jobs available. In addition to operational management, graduates will be able to pursue careers in such areas as personnel, marketing, sales, finance, training, facilities management, conference management, and purchasing. Career progression is often very rapid, with companies offering very good financial and professional development packages in recognition of the major shortage of well qualified management graduates for what is one of the world's largest and fastest growing industries.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Relate customer expectations to the achievement of financial viability of the organization.
2. Practice appropriate communication skills in operational and human resource management.
3. Evaluate hospitality operations.
4. Apply quality control systems to customer service issues.
5. Apply the appropriate management/supervisory techniques to operational situations.

DEGREE REQUIREMENTS:

CORE COURSES:

BUAD 66 *	Business Communications	3
BUAD 80	Customer Service	3
CIS 1	Computer Literacy Workshop	3
CULA 50	Safety and Sanitation	2
CULA 55	Purchasing	2
CULA 73	Introduction to Wines OR	2
CULA 66	Wine with Food	
HOSP 10	Introduction to the Hospitality Industry	3
HOSP 20	Hospitality Operations Management	3
HOSP 35	Computer Applications in the Hosp. Industry	3
HOSP 40	Human Res. Mgmt. in the Hospitality Industry	3
HOSP 45	Restaurants, Hotels, and Lawful Management	2
HOSP 50	Hospitality Marketing, Sales and Advertising	3
HOSP 60	Hospitality and Financial Management	3
HOSP 65	Hospitality Supervision	3
HOSP 94	Hospitality Worksite Learning	1

*May be used to fulfill General Education requirements.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

Major	39
Additional General Education	18
General Electives	3
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Hospitality Management – Hotel/Restaurant Management Concentration Certificate:

SC Program: CL.3242

PROGRAM DESCRIPTION: This certificate is designed to prepare students for careers in the hospitality field associated with food and beverage management, lodging, and tourism. Hands-on worksite learning gives the student additional experience in the field.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Define the concept of service and train others to meet and exceed guest expectations, in any hospitality industry environment.
2. Define the main departments within a full-service hotel and their functions, and describe how each department works together to ensure the overall objective is met.
3. Describe computer applications commonly used in the hospitality industry.
4. Describe the nature of, and be able to effectively function in, this dynamic physically demanding environment.
5. Describe motivational techniques that management can employ to improve employee performance in a hospitality operation.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at www.shastacollege.edu/specs_hosp_hotelmanagecert_gainfulemployment/.

CERTIFICATE REQUIREMENTS:

BUAD 80	Principles of Customer Service	3
HOSP 10	Introduction to the Hospitality Industry	3
HOSP 20	Hospitality Operations Management	3
HOSP 35	Computer Applications in the Hosp. Industry	3
HOSP 40	Human Resource Mgmt. in the Hosp. Industry	3
HOSP 94	Hospitality Worksite Learning	1

TOTAL UNITS FOR CERTIFICATE 16

Industrial Technology Certificate

Certificate:

SC Program: CL.3430

PROGRAM DESCRIPTION: The Industrial Technology Certificate is designed to provide employable knowledge and skills courses common to various industrial occupations for entry-level employment in diverse industries.

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Industrial Technology Certificate

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and **application for completion of the certificate to Admissions and Records**, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Explain the basic theory of the subject matter or industrial system for the course of instruction based on industry standards.
2. Analyze a scenario based upon an industrial equipment system failure/problem/complaint.
3. Employ a systematic approach to troubleshooting an industrial system malfunction and prepare an effective repair solution.
4. Analyze component failures to determine the root cause of the component failure.
5. Verify if the path of repair was correct by testing and/or completing a work order/report.
6. Demonstrate the correct usage of tools/supplies required to diagnose/ repair a malfunction

CERTIFICATE REQUIREMENTS:

DIES 48	Hydraulics	3.5
INDE 101	Industrial Occupation Basics	3
INDE 138	Fundamentals of Electronics and Electricity	3
MATH 100	Technical Applications of Mathematics	3
WELD 70	Beginning Welding	3

TOTAL UNITS FOR CERTIFICATE:	15.5
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Life Management

Certificate:

SC Program: CL.3252

PROGRAM DESCRIPTION: This certificate is designed to provide students with the information, perceptions and skills necessary to move toward responsible independence and effective interpersonal relationships. Resources such as time, money and energy will be stressed along with the study of the physical, mental, emotional and social needs of all ages. This curriculum is essential for preparing individuals to balance personal, family and work responsibilities throughout the life cycle.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and **application for completion of the certificate to Admissions and Records**, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be capable of balancing personal, family and work responsibilities on a sustainable basis through the use of:

1. A comprehensive model of developmentally appropriate concepts and behavior throughout the lifespan.
2. A personal mission statement for life and set of initial life goals.
3. A theoretical perspective of family.
4. A personal dietary analysis and plan.
5. A personal budgetary analysis and plan.

CERTIFICATE REQUIREMENTS:

All courses to be applied to the Life Management Certificate must be completed with a "C" grade or better.

ECE 1	Human Development	3
FSS 16	Marriage and Family	3
FSS 25	Nutrition	3
FSS 46	Personal Finance	3
FSS 60	Life Management	3

TOTAL UNITS FOR CERTIFICATE	15
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Music

Associate in Arts:

SC Program: AA.1360

PROGRAM DESCRIPTION: The AA curriculum in Music is designed to provide preparation for either transfer to a CSU or UC as a music major and/or assist in development for a career in music within a variety of music career choices. A few of these career options could be: working in the music industry, music performance, music education, music publishing, musical theater, composition, retail music merchandising, and private music instruction. Additionally the music curriculum creates an opportunity for local amateur and professional musicians to perform within the music department's music performance ensembles (Choirs, Orchestras, Symphonic Bands, and Jazz Ensembles) and/or to advance their music skills.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Describe major concepts, vocabulary, theoretical perspectives, and creative performance practices of music.
2. Demonstrate ensemble specific performance practices and professional standards of conduct expected of ensemble participants.
3. Perform solo literature with an accompanist (if appropriate) using stylistically accurate rhythm, pitch, diction (or articulation) and musical expression. Included will be performance within formal recital settings.
4. Demonstrate the ability to "audiate" a musical score by sight singing tonal music and performing rhythms.
5. Demonstrate the ability to recognize and analyze patterns and musical function by aurally identifying and transcribing scales, modes, melodies, and harmonic progressions.
6. Demonstrate keyboard proficiency at the level required to perform theoretical concepts studied in music theory courses.

DEGREE REQUIREMENTS:

Students must complete the Core and Restricted Elective courses. In addition, students fulfill the 34-39 unit general education pattern for CSU or IGETC. NOTE: Students planning to transfer to National Association of Schools of Music (NASM) accredited universities to complete a BA degree in Music, in addition to meeting the major requirements shown below, will be required by the transfer institution to show proficiency in the following areas: theory, keyboard skills, vocal skills, music history/appreciation, and applied musicianship.

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Music A.A. Degree (continued):

CORE COURSES:

MUS 2	Diatonic Harmony and Musicianship	4
MUS 3	Advanced Diatonic Harmony and Musicianship	4
MUS 4	Chromatic Harmony	4
MUS 5	20th Century Harmony	4
MUS 10*	Music Appreciation	3
MUS 48	Applied Music (four semesters, .5 units each)	2
MUS 61A	Beginning Performance Analysis	.5
MUS 61B	Intermediate Performance Analysis	.5
MUS 61C	Advanced Intermediate Performance Analysis	.5
MUS 61D	Advanced Performance Analysis	.5
MUS 64	Beginning Keyboard Skills	1
MUS 65	Intermediate Keyboard Skills	1
MUS 66	Advanced-Intermediate Keyboard Skills	1
MUS 67	Advanced Keyboard Skills	1

RESTRICTED ELECTIVES: (Choose four units) 4

MUS 31	Chamber Choir (1)	
MUS 33	Jazz Ensemble (1)	
MUS 35	Vocal Jazz Ensemble (1)	
MUS 40	Concert Choir (1)	
MUS 41	Shasta College Women's Ensemble (1)	
MUS 42	Shasta College Chorale (1)	
MUS 43	Shasta College Symphony Orchestra (1)	
MUS 44	Shasta College Youth Symphony (.5-1)	
MUS 46	Shasta College Symphonic Band (1)	
MUS 47	Shasta College Jazz Ensemble (1)	

The following courses are not required but are recommended by the Department: MUS 11*, 14*, 25A, 25B, 25C, 25D, 29, and 30.

*May be used to fulfill General Education requirements.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:	
Major	31
Additional General Education	36
General Electives	0
Degree Total	67*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Music Certificate:

SC Program: CL.3280

PROGRAM DESCRIPTION: The Certificate in Music is designed to provide preparation for development of career employment within a variety of music career choices. A few of these career options could be: working in the music industry, music performance, music publishing, musical theater, composition, and private music instruction. Additionally the music curriculum creates an opportunity for local amateur and professional musicians to perform within the music department's music performance ensembles (Choirs, Orchestras, Symphonic Bands, and Jazz Ensembles) and/or to advance their music skills.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. List and describe the major concepts, vocabulary, theoretical perspectives, and creative performance practices of music.
2. Demonstrate ensemble specific performance practices and professional standards of conduct expected of ensemble participants.
3. Perform solo literature with an accompanist (if appropriate) using stylistically accurate rhythm, pitch, diction (or articulation) and music expression.
4. Demonstrate the ability to "audiate" a musical score by sight reading and performing complex rhythms and by sight-singing chromatic, modulating, and post-tonal melodies.
5. Demonstrate the ability to recognize patterns and musical function by aurally identifying and transcribing scales, modes, post-tonal melodies, and complex harmonic progressions. Analyze chromatic harmonic progressions that include modulation using 20th century techniques.

CERTIFICATE REQUIREMENTS:

MUS 2	Diatonic Harmony and Musicianship	4
MUS 3	Advanced Diatonic Harmony and Musicianship	4
MUS 4	Chromatic Harmony	4
MUS 5	20th Century Harmony	4
MUS 48	Applied Music (four semesters, .5 unit each)	2

RESTRICTED ELECTIVES: (Choose four units) 4

MUS 31	Chamber Choir (1)	
MUS 33	Jazz Ensemble (1)	
MUS 35	Vocal Jazz Ensemble (1)	
MUS 40	Concert Choir (1)	
MUS 41	Shasta College Women's Ensemble (1)	
MUS 42	Shasta College Chorale (1)	
MUS 43	Shasta College Symphony Orchestra (1)	
MUS 44	Shasta College Youth Symphony (.5-1)	
MUS 46	Shasta College Symphonic Band (1)	
MUS 47	Shasta College Jazz Ensemble (1)	

TOTAL UNITS FOR CERTIFICATE	22
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Nurse Aide/Home Health Aide

Certificate:

SC Program: CL.3300

PROGRAM DESCRIPTION: These courses are designed to prepare students to perform the basic nursing skills required in acute hospitals, long-term care facilities, and home health care agencies. Special emphasis is placed on health care provisions and modifications in community health care settings.

These courses are offered to complete one after another within one semester, consisting of eight hours lecture and sixteen hours lab/clinical per week and is worth 12.5 units of college credit. These courses are approved by the State Department of Health Services.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and **application for completion of the certificate to Admissions and Records**, the student will receive a certificate of completion from Shasta College. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

Continued on next page...

Nurse Aide/Home Health Aid Certificate (continued):

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate:

- 90% of students taking the end of program comprehensive written and skills predictor examination will demonstrate competency by a written score of 75% or higher and demonstrate competency on at least three of five randomly selected skills consistent with state certification testing competencies.

REQUIREMENTS FOR ENROLLMENT INTO THE PROGRAM

Space in the program is limited. A new class is enrolled every semester. In order to be eligible to enroll in the NA and HHA courses, the student must complete the clinical requirements for immunizations and CPR certification. Students who have completed the requirements and submitted the appropriate forms will be added to the Wait List based on the date of submission of clinical requirement materials to the Health Sciences office. Students on the Wait List will be offered enrollment on a space available basis and will be contacted by the Health Sciences office to complete additional health and safety requirements (physical exam, TB screening, drug screening and criminal background check). Students must meet [established physical criteria](#) to participate in the clinical area. See program web page for [specific information](#) regarding enrollment

CERTIFICATE REQUIREMENTS:

HEOC 130	Nurse Assistant	11
HEOC 131	Home Health Aide	1.5

TOTAL UNITS FOR CERTIFICATE:	12.5
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Nursing – Associate Degree Nursing

Associate in Science:

SC Program: AS.1380

PROGRAM DESCRIPTION: The educational objective of the Associate in Science Degree Nursing program is to prepare the student who, upon graduation and successful completion of the NCLEX-RN, will be able to function within the scope of nursing as defined by the State of California Nursing Practice Act. Students must meet established physical criteria to participate in the clinical area.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and [filing an application for graduation with Admissions and Records](#), the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree:

- 90% of those students who are eligible to sit for the National Council Licensing Examination for Registered Nursing (NCLEX-RN) will pass their examination within the first six months of the first attempt.

Graduation Requirements:

- Completion of the Humanities requirement.
- Completion of competence in math (MATH 102 Inter. Algebra or MATH 110 Essential Math are the advised course for meeting this requirement).
- Completion of the multi-cultural awareness requirement.
- Completion of computer literacy.

Due to the time commitments of the ADN program, it is [strongly recommended](#) to complete the graduation requirement before entering the program.

REQUIREMENTS FOR ENROLLMENT IN THE PROGRAM:

Space in the program is limited. A new class is enrolled every semester. In order to be eligible for enrollment, students must satisfy the prerequisites listed and below file an enrollment packet with the Admissions Office during [designated enrollment periods in each semester](#). All qualified applicants are placed on a waiting list and enrolled on a space available basis in the order of their accepted application date. For specific information, see the [Application Process tab](#) on the website or call the Division Office at (530-339-3600).

Students must meet all of the following requirements for application:

- Students filing enrollment packets must have a high school diploma or equivalent.
- The "Prerequisite Science" courses listed below must be completed with a grade of C or higher in each course and a minimum science 2.5 GPA.
- Prerequisites must be completed upon application. No in-progress courses will be accepted.

PREREQUISITE COURSES:

ANAT 1*	Anatomy	5
MICR 1*	**Microbiology	5
PHY 1*	Physiology (with lab)	5

Students must complete the remaining "PREREQUISITE" courses listed below with a grade of "C" or better in each course.

ENGL 1A*	College Composition	4
ANTH 2*	Cultural Anthropology OR	3
SOC 1*	Introduction to Sociology OR	
SOC 2*	Social Problems	

PSYC 1A*	General Psychology OR	3
PSYC 14*	Psychology of Personal/Social Adjustment	

**CMST 10*	Interpersonal Communication OR	3
CMST 54*	Small Group Communication OR	
CMST 60*	Public Speaking	

* May be used to fulfill General Education Requirements. See a counselor.

** ONLY if completed with a grade of C or higher during or prior to Spring 2014.

TOTAL PREREQUISITE UNITS	28
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DEGREE REQUIREMENTS:

Students must be enrolled in the ADN Program in order to take the courses listed below. Students must show competence in both clinical and theory components (with a grade of C or better) in order to progress through the curriculum. A failing clinical grade in either theory or clinical will require withdrawal or result in failure of the program.

CORE COURSES:

REGN 1	Theoretical Foundations of Nursing Care	6.5
REGN 2	Clinical Foundations of Nursing Care	5.5
REGN 10	Theoretical Concepts Med/Surgical Nursing I	6.5
REGN 11	Clinical Concepts Med/Surgical Nursing I	4.5
REGN 12	Assessment Concepts Med/Surgical Nursing	1
REGN 20	Theoretical Concepts Med/Surgical Nursing II	7
REGN 21	Clinical Concepts Med/Surgical Nursing II	5
REGN 33	Theoretical Concepts Med/Surgical Nursing III	6
REGN 34	Clinical Concepts Med/Surgical Nursing III	6

TOTAL UNITS FOR CORE:	48
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ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

Major	76
Additional General Education	6
General Electives	0
Degree Total	82*

Continued on next page...

Associate Degree Nursing (continued):

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

The enrollment process for LVNs desiring to transition to RN has changed. For pertinent information see [Advanced Placement tab](#) on website or contact the Division at (530) 339-3600.

ENROLLMENT CRITERIA FOR THE 30-UNIT OPTION – NON DEGREE – LVN-RN PROGRAM:

LVNs may elect to take a non-degree program under the BRN regulation 1429 – the 30 unit option. This consists of twenty (20) units of nursing and ten (10) units of related science. REGN 20X, REGN 21X, REGN 33X, and REGN 34X are the required 20 units of nursing. Microbiology and physiology are the required 10 units of science. Students must see nursing program director if considering this option.

Nursing – Vocational Nursing

Certificate:

SC Program: CT.3265

PROGRAM DESCRIPTION: This curriculum is designed to prepare selected individuals to provide nursing care requiring technical-manual skills under the supervision of a Registered Nurse or physician. Upon successful completion of the program, a student receives a Certificate of Completion and is eligible to take the NCLEX-PN for licensure as a Vocational Nurse. Students who have had previous education and experience in nursing will be given the opportunity to receive credit toward completion of the program.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate:

- 90% of those students who are eligible to sit for the National Council Licensing Examination for Vocational Nurses (NCLEX-PN) will pass the examination within the first six months of the first attempt.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please click on the [Gainful Employment Information tab](#) on our website.

REQUIREMENTS FOR ENROLLMENT INTO THE PROGRAM:

Space in the program is limited. A new class is enrolled every three semesters. In order to be eligible for enrollment, students must satisfy the prerequisites listed Below and file an enrollment packet with the Admissions Office during [designated enrollment periods in each semester](#). All qualified applicants are placed on a waiting list and enrolled on a space available basis in the order of their accepted application date. Specific information is available in the [Enrollment Process tab](#) on our website Students must meet all of the following requirements for application:

- Students must have a high school diploma or equivalent.
- Students must be a current Certified Nurse Aide (CNA)
- Students must complete the following prerequisite courses with a C grade or better. No in-progress courses will be accepted.

PREREQUISITE COURSES:

BIOL 5	Introduction to Human Biology	3
BIOL 6	Human Biology Lab	1
ECE 1	Human Development	3
FSS 25	Nutrition	3
PSYC 1A	General Psychology OR	3
PSYC 14	Psychology of Personal/Social Adjustment	

TOTAL UNITS FOR PREREQUISITES	13
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HEALTH & SAFETY CLINICAL CLEARANCE:

Upon acceptance for enrollment, students must meet additional clinical requirements. All students participating in clinical experiences must submit proof of immunity of specific immunizations or serum titers, cleared criminal background check, negative drug screen, current physical examination and negative TB screening, and provide current valid Basic Life Support-Health Care Provider card (CPR) which includes adult, child & infant resuscitation with two person rescue and AED training). Students are financially responsible for meeting these requirements according to established program process. Specific information is available on the Health and Safety Requirements tab on the website or students may call the Division Office (530-339-3600)

CERTIFICATE REQUIREMENTS:

Students must be enrolled in the program in order to take the courses listed below.

NOTE: Students must show competence in both clinical and theory components (a grade of C or better) in order to progress through the curriculum. A failing grade in either theory or clinical components will require withdrawal or result in failure of the program.

VOCN 160	Foundations of Nursing Practice	15
VOCN 161	Nursing of Adults	13
VOCN 162	Nursing of Adults and Children	13

TOTAL UNITS FOR CERTIFICATE:	41
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RECOMMENDED COURSES (Not required):

ENGL 190	Reading and Writing II
MATH 220	Basic Mathematics
OAS 110	Medical Terminology

Office Administration – Administrative Office Assistant

Certificate:

SC Program: CL.3091

PROGRAM DESCRIPTION: This certificate prepares students for work as an entry-level Administrative Assistant. Administrative Assistants work for supervisors, managers, and executives. Students learn the following skills:

Document and Data Handling: how to prepare, modify, and proofread documents such as reports, letters, memos, records, lists, and schedules.

Technology: Working knowledge of Microsoft Office (Word, Excel, Internet Explorer, and Outlook).

Keyboarding: Type 35-40 words per minute. **Interpersonal:** Meet and greet clients and visitors, maintain a pleasant manner, and project a professional image in person and on the phone.

Confidential: Handling of mail, money, and receipts.

General: Research and price office furniture and supplies with attention to detail. Obtaining on-the-job training through the Worksite Learning course at Shasta College is highly recommended.

Continued on next page...

OAS – Administrative Office Assistant Certificate (continued):

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and **application for completion of the certificate to Admissions and Records**, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Define ethical office behavior.
2. Define gracious and efficient behavior with office visitors using appropriate customer service skills.
3. Schedule appointments including the use of electronic calendaring.
4. Organize files and folders electronically.
5. Prepare notices, agendas, and minutes for meetings.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_oas_gainful_employment/.

CERTIFICATE REQUIREMENTS:

BUAD 166	Business English	3
CIS 1	Computer Literacy Workshop	3
OAS 10	Excel for Windows – I	1
OAS 51	Introduction to Keyboarding and Word	3
OAS 64	Computerized 10-Key	.5
OAS 152	Keyboarding for Speed and Accuracy	.5
OAS 158	Office Procedures for Admin Assistants	3

RESTRICTED ELECTIVES: (Choose three units) 3

OAS 80	Outlook (1) <u>AND</u>
OAS 166	Records Management (2)

OR

OAS 110	Medical Terminology (3)
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TOTAL UNITS FOR CERTIFICATE	17
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Office Administration – Administrative Office Professional

Associate in Science:

SC Program: AS.1397

PROGRAM DESCRIPTION: This degree prepares you to be an advanced-level Administrative Assistant. Administrative Assistants work for supervisors, managers, and executives. Skills learned: Document and Data Handling: How to prepare, modify, and proofread documents such as reports, letters, memos, records, lists, and schedules. Technology: Advanced knowledge of Microsoft Office: Word, Excel, and Outlook. Setup and coordinate meetings and conferences using Outlook. Intermediate knowledge of Microsoft Office: PowerPoint, Internet Explorer, and Access. Incorporate computer graphics in documents, in addition to computer based filing methods and procedures. Type 50-55 words per minute. Interpersonal: Meet and greet clients and visitors, maintain a pleasant manner, and project a professional image in person and on the phone. Confidential: Handling of mail, money, and receipts, and record keeping. General: Research and price office furniture and supplies with attention to detail. Sales concepts, including markups, discounts, insurance, and depreciation, scheduling and reporting duties, coordinate and maintain records for staff. Obtaining on-the-job training through the Worksite Learning course at Shasta College is highly recommended.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Operate the alphabetic, numeric, and symbol keys by touch with proper typing technique.
2. Type for 5 minutes at a minimum net speed of 50 words a minute with five errors or less.
3. Expand and apply knowledge of Microsoft Word to complete business documents.
4. Increase abilities related to formatting business letters, memos, tables, mail merge, and reports including employment documents.
5. Answer, with at least 70 percent accuracy, questions on objective tests covering technical information

DEGREE REQUIREMENTS:

CORE COURSES:

ACCT 101	Basic Accounting I	3
ACCT 103	PC Accounting	2
BUAD 45 *	Human Relations on the Job	3
BUAD 66 *	Business Communications	3
BUAD 106	Business Mathematics	3
BUAD 166	Business English	3
CIS 1	Computer Literacy Workshop	3
CIS 20	Access for Windows I	1
OAS 10	Excel for Windows I	1
OAS 11	Excel for Windows II	1
OAS 51	Introduction to Keyboarding and Word	3
OAS 52	Intermediate Keyboarding and Word	3
OAS 53	Advanced Keyboarding and Word	3
OAS 64	Computerized Ten-Key	.5
OAS 80	Outlook	1
OAS 84	Office Administration Worksite Learning	1
OAS 92	Word for Windows II	1
OAS 94	PowerPoint	1
OAS 152	Keyboarding for Speed and Accuracy	.5
OAS 158	Office Procedures for Admin Assistants	3
OAS 166	Records Management	2
OAS 171	Proofreading Skills	2

RECOMMENDED COURSES (not required):

CIS 83	Web Design Using Dreamweaver (2)
OAS 12	Excel for Windows III (1)
OAS 93*	Word for Windows III (1)

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

Major	44
Additional General Education	15
General Electives	1
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Certificate on next page...

**Office Administration –
Administrative Office Professional
Certificate:**

SC Program: CT.3247

PROGRAM DESCRIPTION: This certificate prepares you to be an intermediate-level Administrative Assistant. Administrative Assistants work for supervisors, managers, and executives. Skills learned: Document and Data Handling: How to prepare, modify, and proofread documents such as reports, letters, memos, records, lists, and schedules. Technology: Working knowledge of Microsoft Office: Word, Excel, PowerPoint, Internet Explorer, Access, and Outlook. Incorporate computer graphics into documents, in addition to computer based filing methods and procedures. Type 45-50 words per minute. Interpersonal: Meet and greet clients and visitors, maintain a pleasant manner, and project a professional image in person and on the phone. Confidential: Handling of mail, money, and receipts, and record keeping. General: Research and price office furniture and supplies with attention to detail. Scheduling and reporting duties. Obtaining on-the-job training through the Worksite Learning course at Shasta College is highly recommended.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Type for 5 minutes at a minimum speed of 40 words per minute with five errors or less.
2. Proofread typed work, mark and count errors, and compute speed.
3. Establish folders (directories) and subfolders (sub-directories) for information management.
4. Increase abilities related to formatting business letters, memos, tables, mail merge, and reports including employment documents.
5. Answer, with at least 70 percent accuracy, questions on objective tests covering technical information.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_oas_gainful_employment/.

CERTIFICATE REQUIREMENTS:

ACCT 101	Basic Accounting I	3
BUAD 45	Human Relations on the Job	3
BUAD 166	Business English	3
CIS 1	Computer Literacy Workshop	3
CIS 20	Access for Windows-I	1
OAS 10	Excel for Windows-I	1
OAS 11	Excel for Windows-II	1
OAS 51	Introduction to Keyboarding and Word	3
OAS 52	Intermediate Keyboarding and Word	3
OAS 64	Computerized Ten Key	.5
OAS 80	Outlook	1
OAS 84	Office Administration Worksite Learning	1
OAS 92	Word for Windows II	1
OAS 94	PowerPoint	1
OAS 152	Keyboarding for Speed and Accuracy	.5
OAS 158	Office Procedures for Admin Assistants	3
OAS 166	Records Management	2
OAS 171	Proofreading	2

TOTAL UNITS FOR CERTIFICATE	33
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RECOMMENDED COURSES (not required):

OAS 12	Excel for Windows III
OAS 93*	Word for Windows III

**Office Administration –
Health Information Management**

Associate in Science:

SC Program: AS.1356

PROGRAM DESCRIPTION: This curriculum is designed to prepare the individual with clerical medical office skills for entry-level employment in physicians' offices, health care facilities, clinics, laboratories, health and accident insurance companies, with related clerical duties essential to medical office assisting. Obtaining on-the-job training through the Worksite Learning course at Shasta College is highly recommended.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Analyze a medical case study utilizing principles of medical terminology, medical coding, and account billing.
2. Select and assign the appropriate CPT (Current Procedural Terminology) or HCPCS (Healthcare Common Procedure System) code(s).
3. Differentiate among the payer requirements based on the patient's status, the medical diagnosis(es), and the services/procedures performed.
4. Apply appropriate principles for claims processing and completion.
5. Explain the reimbursement issues and practice using appropriate terminology.

DEGREE REQUIREMENTS:

CORE COURSES:

BIOL 5*	Introduction to Human Biology	3
BUAD 45 *	Human Relations on the Job	3
BUAD 66 *	Business Communications	3
BUAD 166	Business English	3
CIS 1	Computer Literacy Workshop	3
HEOC 10	Applied Pharmacology	3
OAS 10	Excel for Windows – I	1
OAS 51	Introduction to Keyboarding and Word	3
OAS 52	Intermediate Keyboarding and Word	3
OAS 64	Computerized Ten-Key	.5
OAS 110	Medical Terminology	3
OAS 112	Medical Coding	3
OAS 113	Advanced Medical Coding	3
OAS 114	Healthcare Billing and Reimbursement	3
OAS 150	Electronic Medical Records	3
OAS 152	Keyboarding for Speed and Accuracy	.5
OAS 158	Office Procedures for Admin Assistants	3
OAS 160	Medical Transcription	3
OAS 171	Proofreading Skills	2

RECOMMENDED COURSES (not required):

OAS 11	Excel for Windows II (1)
OAS 53	Advanced Keyboarding and Word (3)
OAS 80	Outlook (1)
OAS 92	Word for Windows II (1)
OAS 166	Records Management (2)

Continued on next page...

OAS – Health Information Management Degree (continued):

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:	
Major	49
Additional General Education	15
General Electives	0
Degree Total	64*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Office Admin – Health Information Management Certificate:

SC Program: CT.3276

PROGRAM DESCRIPTION: This program is designed to prepare the student for an entry-level position in the medical office. Skills learned: prepare claims for health care facilities, clinics, physicians' offices, medical equipment companies, medical billing service companies, transcription, and record management. Upon completion of this program, the graduate should have the necessary knowledge and skills to secure employment in either the medical provider or health care sectors. Obtaining on-the-job training through the Worksite Learning course at Shasta College is highly recommended.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Identify the structure of the current coding methodologies/diagnosis and procedures.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_oas_gainful_employment/.

CERTIFICATE REQUIREMENTS:

BIOL 5	Introduction to Human Biology	3
BUAD 166	Business English	3
CIS 1	Computer Literacy Workshop	3
HEOC 10	Applied Pharmacology	3
OAS 10	Excel for Windows I	1
OAS 51	Introduction to Keyboarding and Word	3
OAS 52	Intermediate Keyboarding and Word	3
OAS 64	Computerized 10-Key	.5
OAS 84	Office Administration Worksite Learning	1
OAS 110	Medical Terminology	3
OAS 112	Medical Coding	3
OAS 113	Advanced Medical Coding	3
OAS 114	Healthcare Billing and Reimbursement	3
OAS 150	Electronic Medical Records	3
OAS 152	Keyboarding for Speed and Accuracy	.5
OAS 158	Office Procedures for Admin Assistants	3
OAS 160	Medical Transcription	3
OAS 171	Proofreading Skills	2

TOTAL UNITS FOR CERTIFICATE 44

RECOMMENDED COURSES (not required):

OAS 11	Excel for Windows II (1)
OAS 53	Advanced Keyboarding and Word (3)
OAS 92	Word for Windows II (1)

Theatre Arts

Associate in Arts:

SC Program: AA.1458

PROGRAM DESCRIPTION: The Theatre Arts program is academically grounded in the liberal arts tradition of literature, performance, cultural studies, history, philosophy, and technical skills. It also provides a hands-on, learn-by-doing environment that gives students experiences and skills to complement many career paths. Employers find theatre trained applicants become valuable employees because they have developed excellent communication and problem-solving skills, confidence, and the ability to work cooperatively with a diverse team of people.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Describe the basic elements of dramatic structure and analyze the dramatic components in a theatrical production.
2. Select appropriate monologues and prepare them as audition pieces.
3. Investigate the themes and dramaturgy of the Greek, Roman, Medieval, Renaissance, Elizabethan, Jacobean and Restoration periods of theater history and compare and contrast those periods through discussion, papers, and performance analysis.
4. Identify and apply the major components of stagecraft in the implementation of scenery, lighting, costume, make-up, special effects, and production management.
5. Investigate the social, political, and spiritual objectives of theatrical performance through discussions and papers that deal with gender, politics and religion.

DEGREE REQUIREMENTS:

CORE COURSES:

THTR 1*	Introduction to Theatre Arts	3
THTR 8*	History of World Theatre I	3
THTR 12	Acting I	2
THTR 23/26	Mainstage Production I/II OR	3
THTR 70	Repertory Theatre I	
THTR 30	Stagecraft	3
THTR 41	Theatre Laboratory OR	3
THTR 74	Repertory Theatre – Technical	

RESTRICTED ELECTIVES IN THEORY: (Choose six units) 6

THTR 5*	20th Century Theatre (3)
THTR 9*	History of World Theatre II (3)
THTR 13	Acting II (2)
THTR 29	Directing (2)
THTR 31	Introduction to Theatrical Design (3)
THTR 34	Makeup (2)
THTR 81	Playwriting and Script Analysis (3)

Continued on next page...

Theatre Arts Degree (continued):

RESTRICTED ELECTIVES IN PRACTICUM: (Choose four units) 4

THTR 16	Acting Lab (1)
THTR 38	Makeup Lab (1)
THTR 42	Technical Stage Production (1-4)
THTR 60	Special Projects-Production (1-2)
THTR 70	Repertory Theatre I (1-4)
THTR 74	Repertory Theatre – Technical (1-4)
THTR 97	Special Studio Topics: Theatre (1-3)
THTR 98	Special Topics: Theatre (1-3)

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:	
Major	27
Additional General Education	18
General Electives	15
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Transition Certificate for Students with Disabilities

Certificate:

SC Program: CL.3415

PROGRAM DESCRIPTION: This curriculum is designed to provide an integrated educational option for students transitioning to post-secondary educational settings.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Approximately 70% of students should be able to use a word processor, find information on the Internet, and create a PowerPoint presentation.
2. Approximately 70% of students will be ready to enter regular college math classes such as MATH 220 or MATH 240.
3. Approximately 70% of students will be ready to enter non-adaptive college English classes such as ENGL 260 or 270.
4. Approximately 70% of students will have identified a career path.
5. Students will acquire the knowledge necessary to select relevant occupational opportunities and job search skills. Approximately 70% of students will demonstrate the ability to find job postings, complete job applications, write a resume and prepare for job interviews.
6. Students will know how to access relevant community and governmental resources. Approximately 70% of students will be able to identify at least four or more community organizations, or state agencies that provide support services for students with disabilities.

CERTIFICATE REQUIREMENTS:

ADAP 210	Career Planning and Development	1
ADAP 254	Adapted Computer Skills (two semesters)	2
ADAP 255	Human Awareness and Life Skills	2
ADAP 256	Reading/Writing for Life Skills (2 semesters) (4)	4-6
OR		
ADAP 256	Reading & Writing for Life Skills (2)	
AND		
ENGL 260	Elements of Reading (4)	

ADAP 258	Mathematics for Life Skills (2 semesters) (4)	4-5
OR		
ADAP 258	Mathematics for Life Skills (2)	
AND		
MATH 220	Basic Math (3)	

TOTAL UNITS FOR CERTIFICATE	13 – 16
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Watershed Restoration Certificate

Certificate:

SC Program: CL.3421

PROGRAM DESCRIPTION: This certificate provides full-time students as well as professionals related to various agencies and industries an opportunity to obtain knowledge, skills and hands-on training related to the many facets of watershed restoration including regulation, mapping, water quality, data collections, recent advances in erosion control and bio-engineering applications and techniques, and heavy equipment operations.

This is a locally approved certificate. Upon satisfactory completion of the listed requirements and application for completion of the certificate to Admissions and Records, the student will receive a certificate of completion. This certificate program is not approved through the California Community College Chancellor's Office; therefore, completion of the certificate will not be listed on the student's transcript.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Apply the newest technologies and practices in erosion control in restoring an ecosystem
2. Apply the latest techniques in bio-engineering applications
3. Select and implement an appropriate method or procedure for monitoring a specific attribute of the environment.
4. Operate and maintain heavy equipment resulting in minimum impact to the watershed.
5. Accurately navigate in the field using maps, compass, a Global Positioning System (GPS). Students will also be able to use GPS for field data collection and Geographic Information Systems (GIS) for data mapping and display.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_nr_gainful_employment/.

CERTIFICATE REQUIREMENTS:

AGNR 50	Natural Resources Measurements	4
AGNR 64	Watershed Management and Ecology	3
AGNR 66A	Watershed Restoration Practicum I	1
CONS 46	Equipment Operations and Maintenance	3
CONS 47	Project Construction for Equipment Operations	3

TOTAL UNITS FOR CERTIFICATE	14
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Water/Wastewater Treatment

Certificate:

SC Program: CL.3420

PROGRAM DESCRIPTION: This program is designed to provide entry-level training and upgrading for California water and wastewater public and private agency operators. A student seeking introduction into either water or wastewater fields would benefit by taking the entire course offerings. It is strongly recommended that students complete MATH 101-Basic Algebra and CHEM 2A-Introduction to Chemistry before completing the requirements of the program.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Assess existing methods in water and wastewater treatment technology.
2. Analyze treatment plant's relationship and responsibility to the community.
3. Evaluate the processes of coagulation, flocculation, sedimentation, filtration, disinfection, and distribution in water treatment.
4. Evaluate the processes of primary sedimentation, oxidation, disinfection, and disposal in wastewater treatment.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_wtt_gainful_employment/.

CERTIFICATE REQUIREMENTS:

WTT 177	Introduction to Wastewater Treatment	3
WTT 180	Introduction to Water Treatment Tech	3
WTT 181	Intermediate Water Treatment Tech	3
WTT 183	Intermediate Wastewater Treatment	3
WTT 184	Small Water Systems and Distribution	3
WTT 186	Advanced Wastewater Treatment	3

TOTAL UNITS FOR CERTIFICATE	18
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Welding Technology

Associate in Science:

SC Program: AS.1490

PROGRAM DESCRIPTION: The Welding Technology Program is designed to prepare students for positions in a variety of trades or service industries requiring technically trained and/or certified welders. The program is designed to prepare students for the opportunity to become certified welders under the standards set by the American Welding Society. Students can receive their certification by the American Welding Society in a variety of processes as part of the instructional program. The program is available in three formats:

- Associate in Science Degree in Welding Technology
- Certificate from Shasta College in Welding Technology
- Certification by the American Welding Society as a certified welder

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this degree.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this degree, the student should be able to:

1. Demonstrate competencies in job safety skills and awareness of workplace hazards.
2. Follow written and oral instructions in the interpretation of simple drawings and sketches, including welding symbols and the execution of the fabrication process.
3. Set up, maintain, and adjust welding related equipment.
4. Acquire skills and knowledge to make a successful transition to an entry-level position in the work force.
5. Pass workmanship tests using common welding processes.

DEGREE REQUIREMENTS:

CORE COURSES:

DIES 48	Hydraulics	3.5
INDE 1	Career Planning for Industrial Technology	1
MATH 110*	Essential Math	3
WELD 70	Beginning Welding	3
WELD 73	Structural Steel Metal Fabrication	3
WELD 118	Blueprint/Specification Reading (Mechanical)	2
WELD 170	Introduction to ARC Welding	3
WELD 171	Intermediate ARC Welding	3
WELD 174	Structural Steel MIG Welding	3
WELD 175	TIG Welding	3
WELD 178	Pipe Welding Fundamentals	3
WELD 182	Advanced ARC Welding	1.5
WELD 183	Advanced ARC Welding Specialty Lab	1.5
WELD 184	Advanced GTAW (TIG) Welding	1.5
WELD 186	Advanced Pipe Welding	2
WELD 188	Advanced GMAW (MIG) Welding	1.5

*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

Major	38.5
Additional General Education	18
General Electives	3.5
Degree Total	60*

***Note:** Calculation assumes a student will double-count the Multicultural graduation requirement with either a social science or humanities G.E. requirement and that the student will fulfill computer literacy through a test. If students plan well and see a counselor, they may be able to double count the Multicultural and Computer Literacy units. **If these graduation requirements are added, the number of units is increased by 6 units.**

Welding Technology Certificate on next page

**Welding Technology
Certificate:**

SC Program: CT.3430

PROGRAM DESCRIPTION: The Welding Technology Program is designed to prepare students for positions in a variety of trades or service industries requiring technically trained and/or certified welders. The program is designed to prepare students for the opportunity to become certified welders under the standards set by the American Welding Society. Students can receive their certification by the American Welding Society in a variety of processes as part of the instructional program.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and **filing an application for graduation with Admissions and Records**, the student's transcript will reflect completion of this certificate.

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, the student should be able to:

1. Demonstrate competencies in job safety skills and awareness of workplace hazards.
2. Follow written and oral instructions in the interpretation of simple drawings and sketches, including welding symbols and the execution of the fabrication process.
3. Set up, maintain, and adjust welding related equipment.
4. Acquire skills and knowledge to make a successful transition to an entry-level position in the work force.
5. Pass workmanship tests using common welding processes.

GAINFUL EMPLOYMENT INFORMATION: For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please visit our website at http://www.shastacollege.edu/bait_weld_gainful_employment/.

CERTIFICATE REQUIREMENTS:

WELD 70	Beginning Welding	3
WELD 73	Structural Steel Metal Fabrication	3
WELD 118	Blueprint & Specification Reading	2
WELD 170	Introduction to ARC Welding	3
WELD 171	Intermediate ARC Welding	3
WELD 174	Structural Steel MIG Welding	3
WELD 175	TIG Welding	3
WELD 178	Pipe Welding Fundamentals	3
WELD 182	Advanced ARC Welding	1.5
WELD 184	Advanced GTAW (TIG) Welding	1.5
WELD 186	Advanced Pipe Welding	2
WELD 188	Advanced GMAW (MIG) Welding	1.5

TOTAL UNITS FOR CERTIFICATE	29.5
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**REQUIREMENTS FOR AMERICAN WELDING SOCIETY
CERTIFICATION:**

In order to become certified by the American Welding Society, the following courses are offered for the student to increase his/her skill and knowledge. Certification by the American Welding Society is dependent upon the meeting of criteria as determined by the certified welding inspector. The completion of these courses is recommended, but does not guarantee certification by the American Welding Society.

WELD 182	Advanced ARC Welding	1.5
WELD 183	Advanced ARC Welding Specialty Lab	1.5
WELD 184	Advanced GTAW (TIG) Welding	1.5
WELD 186	Advanced Pipe Welding	2
WELD 188	Advanced GMAW (MIG) Welding	1.5