



**College
of the
Sequoias**

2014-2015

Catalog Supplement

915 S. Mooney Boulevard Visalia, California

Associate in Arts in Music for Transfer (AA-T)

Division: Fine Arts

Students completing the Associate in Arts in Music for Transfer will be able to seamlessly transfer in the CSU system to pursue a baccalaureate degree in Music. Students completing this degree will have an introductory foundation for the field of Music through the study of music theory and musicianship, performance practices of different genres of music; including public recitals and concerts. Students will acquire solo and ensemble performance skills from different time periods; hear, analyze and write music and distinguish historical musical styles. The program offers three areas of emphasis: instrumental, vocal, keyboard..

PROGRAM OUTCOMES:

- Discriminate the appropriate historical differences in music styles
- Critique musical performances
- Produce appropriate technique on student's voice/instrument
- Analyze examples from a musical score
- Interpret the musical score with appropriate expression and artistry

TRANSFER & CAREER OPPORTUNITIES: This Associate of Arts in Music for Transfer (AA-T) Degree is intended to meet the lower division requirements for music for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: Studio Musician; Instrumental Teacher; Voice Teacher; Music Director/Conductor/Producer; Accompanist; Media Composer/Arranger; Music Score Preparer; Composer; Music Therapist; Music Journalist; Audio Technician; Recording Engineer; Audio Designer; Media Composer/Arranger.

| | UNITS | GSUGE AREA | IGETC AREA |
|---|-------|---------------|---------------|
| 1. GENERAL EDUCATION: Complete one of the following: | | | |
| A. California State University General Education (CSU GE) | 39 | | |
| B. General Education Transfer Curriculum (IGETC-CSU)** | 37 | | |
| GE Units: | 37-39 | | |

Required major courses that may double count for specific CSUGE and IGETC AREAs are designated in the CSUGE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSUGE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

2. REQUIRED MAJOR COURSES:

All students must declare an area of emphasis (Keyboarding, Instrumental, or Vocal) and concurrently enroll in MUS 041AD and one of the following major performance ensemble courses for four consecutive semesters: MUSIC 034AD, 074AD, 054AD.

MUS 041AD must be completed four times for a total of 4 units.

| | | | | |
|--------------|---------------------------|---|----|----|
| A. MUS 041AD | Applied Music Lessons | 1 | | |
| B. MUS 004 | Theory and Musicianship 1 | 4 | C1 | 3A |
| C. MUS 005 | Theory and Musicianship 2 | 4 | C1 | 3A |
| D. MUS 006 | Theory and Musicianship 3 | 4 | | |
| E. MUS 007 | Theory and Musicianship 4 | 4 | | |

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The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 15 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSUGE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSUGE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Music for Transfer (AA-T)

Division: Fine Arts

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One of the following large ensemble courses must be completed 4 times for a total of 4 units:

| | | |
|--------------|-------------------------------|-----|
| F. MUS 034AD | Concert Choir | 1-2 |
| | or | |
| G. MUS 074AD | Symphonic Band | 1-2 |
| | or | |
| H. MUS 054AD | Symphony Orchestra | 1 |
| | Required Major Courses Units: | 24 |

3. Electives

Select additional transferable courses numbered 1-199 to achieve 60 units.

The Music Department strongly **recommends** MUS 020AD (Piano) to meet this additional unit requirement.

| | |
|------------------|-----|
| Electives Units: | 3-5 |
| Total Units: | 60 |

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 15 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSUGE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSUGE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Science in Mathematics for Transfer (AS-T)

(Effective Date: Spring 2015)

Division: Math and Engineering

Students completing the Associate in Science in Mathematics for Transfer will be able to seamlessly transfer in the CSU system to pursue a baccalaureate degree in Mathematics. Students completing this degree will have an introductory foundation for the field of Mathematics through the study of single and multivariate calculus, linear algebra and differential equations, and will acquire the knowledge and skill sets necessary for success in a baccalaureate-level mathematics program.

PROGRAM OUTCOMES:

- Take real situations and develop mathematical models to solve problems
- Apply analytical techniques to solve problems
- Create, interpret and analyze graphical representations of data and equations

TRANSFER & CAREER OPPORTUNITIES: This Associate in Science in Mathematics for Transfer (AS-T) Degree is intended to meet the lower division requirements for mathematics for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: technical and financial industries, academics and research, computer and statistical fields (many other career options require an advanced degree).

| | UNITS | GSUGE AREA | IGETC AREA |
|---|-------|---------------|---------------|
| 1. GENERAL EDUCATION: Complete one of the following: | | | |
| A. California State University General Education (CSU GE) | 39 | | |
| B. General Education Transfer Curriculum (IGETC-CSU)** | 37 | | |
| GE Units: | 37-39 | | |

Required major courses that may double count for specific CSUGE and IGETC AREAs are designated in the CSUGE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSUGE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

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The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 15 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 3-6 units may be double counted above in 1A (CSUGE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSUGE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Science in Mathematics for Transfer (AS-T)

Division: Math and Engineering

(continued from previous page)

| | UNITS | GSUGE AREA | IGETC AREA |
|---|-------|---------------|---------------|
| 2. REQUIRED MAJOR COURSES: | | | |
| A. MATH 065 Calculus 1 | 4 | B4 | 2A |
| B. MATH 066 Calculus 2 | 4 | | |
| C. MATH 067 Calculus 3 | 4 | | |
| Required Major Units: | 12 | | |
| 3. RESTRICTED ELECTIVES-List A | | | |
| Select one of the following courses: | | | |
| MATH 080 Linear Algebra | 4 | | |
| MATH 081 Differential Equations | 5 | | |
| Restricted Electives-List A Units: | 4-5 | | |
| 4. RESTRICTED ELECTIVES-List B | | | |
| Select one course from either List A or List B | | | |
| CSCI 001 Programming Concepts/Method 1 | 4 | | |
| MATH 021 Introduction to Statistics | 4 | | |
| PHYS 055 Physics 1: Mechanics & Waves | 5 | B1 | 5A |
| Restricted Electives-List B Units: | 4-5 | | |
| 5. ELECTIVES | | | |
| Select additional transferable courses numbered 1 -199 to achieve 60 units: | | | |
| Electives Units: | 2-10 | | |
| Total Units: | 60 | | |

The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 15 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 3-6 units may be double counted above in 1A (CSUGE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSUGE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Certificate of Achievement in Interpreter (Spanish)

Division: Language Arts

Students completing this certificate will be prepared for the three California Judicial Council/Administrative Office of the Courts Certified Interpreter Exams in English and Spanish.

PROGRAM OUTCOMES:

At the end of this program, students will be able to speak, read, write and understand spoken Spanish at a near-native level of fluency and have the ability to function as interpreters within the court system

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in a variety of governmental and medical settings.

| | | Units |
|---|---|-------|
| 1. REQUIRED CERTIFICATE COURSES: | | |
| A. | ENGL 001 College Reading & Composition | 4 |
| B. | SPAN 004 Advanced Spanish | 4 |
| | or SPAN 012 Hispanic Literature | 3 |
| C. | SPAN 280 Interpreters Written Exam Prep | 1 |
| D. | SPAN 281 Spanish Interpreting Skills | 3 |
| E. | ENGL 380 Vocabulary Building for Tests | 1 |
| Required Certificate Units: | | 12-13 |
| 2. RESTRICTED ELECTIVES: | | |
| Select 8-9 additional units from this list to complete the requirements for this certificate. | | |
| | SPAN282 Spanish Legal/Medical Terms | 3 |
| | BUS293 Business English | 4 |
| | AJ112 Legal Aspects of Evidence | 3 |
| | AJ115 Criminal Law 2 | 3 |
| | WEXP193 C Court Interp Wrk Exp-1st Sem | 1-4 |
| | WEXP194 C Court Interp Wrk Exp-2nd Sem | 1-4 |
| | WEXP195 C Court Interp Wrk Exp-3rd Sem | 1-4 |
| | WEXP196 C Court Interp Wrk Exp-4th Sem | 1-4 |
| Restricted Elective Units: | | 8-9 |
| Total Certificate Units: | | 21 |

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Language Arts Division Chair.

Certificate of Achievement in NCCER Electrical Applications

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of NCCER Electrical Applications. Students completing this certificate will acquire skills, knowledge, and abilities to prepare individuals for the California Electrical Certification Examination.

PROGRAM OUTCOMES:

At the end of this program, students will be prepared to take the “applications” portion of the California Electrician Certificate Examination.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: home repair and maintenance, electric contractors, electric service and utility providers.

| | | Units |
|----------------------------------|--------|------------------------|
| 1. REQUIRED CERTIFICATE COURSES: | | |
| A. | ET 204 | Electrician Training 4 |
| B. | ET 205 | Electrician Training 5 |
| C. | ET 206 | Electrician Training 6 |
| D. | ET 207 | Electrician Training 7 |
| Total Certificate Units: | | 16 |

The Certificate of Achievement requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in NCCER Electrical Theory

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of NCCER Electrical Theory. Students completing this certificate will acquire skills, knowledge, and abilities to prepare individuals for the California Electrician Certification Examination.

PROGRAM OUTCOMES:

At the end of this program, students will be prepared to take the “theory” portion of the California Electrician Certificate Examination.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this NCCER Electrical Theory certificate, the subsequent NCCER Electrical Applications certificate, and the passing of the California Electrician Certification Examination, students will be prepared for employment in the following fields: State of California Certified Electrician.

| | | Units |
|----|--------------------------------------|-------|
| 1. | REQUIRED CERTIFICATE COURSES: | |
| A. | ET 200 Intro to Electrician Training | 4 |
| B. | ET 201 Electrician Training 1 | 4 |
| C. | ET 202 Electrician Training 2 | 4 |
| D. | ET 203 Electrician Training 3 | 4 |
| | Total Certificate Units: | 16 |

The Certificate of Achievement requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Sustainability

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of Sustainability. Students completing this certificate will acquire knowledge and skills in cutting edge sustainable, green, and eco technology for the building industry and the community at large.

PROGRAM OUTCOMES:

- Administer, apply, and define sustainable and green-related variables and associate them with real world situations related to the design profession.
- Implement issues related to sustainability.
- Administer, apply, and define the principles, materials, methods, and processes of sustainable construction.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: Sustainability Specialist in architectural, engineering, or construction fields.

| 1. REQUIRED CERTIFICATE COURSES: | | Units |
|----------------------------------|-------------------------------|-------|
| A. ARCH030 | Sustainable and Green Topics | 3 |
| B. ARCH133 | Sustainability Implementation | 3 |
| C. ARCH134 | Sustainable Materials/Methods | 3 |
| D. ARCH251 | Independent Study-ARCH | 1-4 |
| E. ARCH151 | Independent Study-ARCH | 1-4 |
| Total Certificate Units: | | 11 |

This certificate is a partnership between the COS Architecture Department, EEC Tulare, and the USGBC Central California. The curriculum allows students to customize their course options based on their own interests. Three COS core courses are required in addition to one EEC and one USGBC course of the student's choice (the one unit courses are independent study).

Architecture Department Website: www.cos.edu/architecture

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in Veterinary Assistant

Division: Agriculture

This certificate prepares students for entry-level employment in the field of Veterinary Assistant. Students completing this certificate will acquire skills in small animal care, anatomy and physiology, parasitology, safety, small animal restraint and handling as well as basic livestock handling.

PROGRAM OUTCOMES:

At the end of this program, students will properly restrain a dog for a physical examination.

At the end of this program, students will follow the steps of a fecal flotation exam and identify any parasites present via microscopic examination.

At the end of this program, students will properly restrain and perform a nail trim on a cat.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: veterinary assistant.

| | | Units |
|----|---|-------|
| 1. | REQUIRED CERTIFICATE COURSES: | |
| | High school preparation should include a good foundation in math, science, and English. | |
| A. | BIOL022 Animal Biology | 3 |
| B. | VT109 Intro to Veterinary Technology | 3 |
| C. | VT118 Comparative Anatomy/Physiology | 4 |
| D. | VT120 Parasitology | 3 |
| E. | VT121 Large Animal Diseases | 3 |
| F. | VT216 Veterinary Office Practices | 2 |
| G. | VT217 Practical Animal Nursing | 2 |
| | Total Certificate Units: | 20 |

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Agriculture Division Chair.

Associate of Science in Agriculture Technology - Not for Transfer* (AS)

Division: Agriculture

This degree prepares students for entry-level employment and/or potential further study in the field of Agriculture Technology through the study of agriculture equipment maintenance and repair, basic equipment construction and fabrication, including layout, finish and welding of metal agriculture structures. Students will acquire skill in the uses of tools and equipment necessary for modern farming operations.

PROGRAM OUTCOMES:

- List, explain and demonstrate safety practices
- Explain and demonstrate basic equipment operation and maintenance
- Define and demonstrate basic fabrication and construction skills including plumbing, welding, electrical and basic equipment operation

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: general agriculture, sales and service of agriculture equipment, equipment manufacturing, ag mechanics and welding.

| | Units | COS-GE AREA |
|---|-------|----------------|
| 1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS: | | |
| A. College of the Sequoias' Associate Degree General Education (COS-GE) | 22 | |
| 2. REQUIRED MAJOR COURSES: | | |
| A. AGTC106 Agriculture Welding | 3.5 | |
| B. AGTC210 Ag Project Construction | 3.5 | |
| C. AGTC225 Outdoor Power Equipment Applic | 2.5 | |
| D. WELD162 Shielded Metal Arc Welding | 4 | |
| F. WEXP193 F Agricultural Wrk Exp-1st Sem | 1 | |
| Required Courses Units: | 14.5 | |
| 3. RESTRICTED ELECTIVES: | | |
| Choose 3.5 units from the following: | | |
| AG104 Safety in Ag Practices | 1.5 | |
| AG200 Ag Leadership | 1 | |
| AGTC202 Farm Equipment Construction | 3.5 | |
| AGTC212 Welding Power Sources/Applicat | 1 | |
| AGMT108 Ag Business Computer Apps | 3.5 | |
| Restricted Electives Units: | 3.5 | |
| 4. ELECTIVES | | |
| Select additional degree applicable courses numbered 1-299 to achieve 60 units: | 20 | |
| Total Units: | 60 | |

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Agriculture Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 15 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer.