

MATH-160 Discrete Math

72 total hours lecture, 36 total hours lab
4 Units

PREREQUISITE: *MATH-050 or equivalent*

ADVISORY: *Concurrent enrollment in MATH-060 or higher*

Discrete Math is an introduction to fundamental topics for computer science. Topics include: logic, proof techniques, mathematical induction, sets, relations, functions and recursion, graphs and trees, elementary number theory, basic combinatorics, algebraic structures, discrete probability theory and modeling computation. May not be repeated. (C-ID COMP 152)


LMC: ADR: Language and Rationality: Communication and Analytical Thinking; DA

TRANSFER: UC; CSU Gen. Ed. Area C4; IGETC Area 2A

MATH-900s Selected Topics in Mathematics

DA varies with course content.

Music

DEGREE--Associate in Arts for Transfer Degree 
Music

DEGREE--Associate of Arts
Music

CERTIFICATES OF ACHIEVEMENT--Music
Commercial – Business Management

ASSOCIATE IN ARTS
MUSIC FOR TRANSFER DEGREE

The Associate in Arts degree in Music in Transfer (AAT) at Los Medanos College offers students the opportunity to acquire the basic skills and music education needed as preparation for careers in music and further study to complete a Bachelor of Arts degree in music. The AAT Arts degree in Music meets lower division standards and requirements for transfer to CSU and various other colleges, universities and music conservatories that offer the Bachelor of Arts degree in music. This program is design for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not a particular campus or major.

To earn the Associate in Arts in Music for Transfer degree, a student must complete 60 transferable semester units that include:

1. Complete CSU General Education- Breadth (CSU GE Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC) requirements.
2. Complete the required major requirements listed below.
3. Courses for the major and the GE requirements (CSU GE- Breadth, IGETC) must be completed with a grade of "C" or better or a "P" if the course is taken on a "pass-no pass" basis.
4. Minimum GPA of 2.0.

| MAJOR REQUIREMENTS: | | UNITS |
|---------------------|-------------------------------------|----------|
| MUSIC-015 | Basic Music | 3 |
| MUSIC-016 | Music Theory I | 3 |
| MUSIC-017 | Music Theory II: Tonal Harmony | 4 |
| MUSIC-018 | Music Theory III: Chromatic Harmony | 4 |
| MUSIC-013 | Musicianship I | 2 |
| MUSIC-014 | Musicianship II | 2 |
| MUSIC- 008 | Private Lessons Practicum (0.5) | 2 |

| PLUS AT LEAST 4 UNITS FROM: | | |
|-----------------------------|---|----------|
| MUSIC-020 | Baroque Ensemble (1) | 4 |
| MUSIC-052 | Chamber Ensembles: Emphasis Strings (1) | 4 |

TOTAL UNITS FOR THE MAJOR: 24

GENERAL EDUCATION FOR THE –CSUGE OR IGETC 37-39

TOTAL UNITS: 60

Program Student Learning Outcomes

1. Understand and be able to apply the fundamentals of music theory, aural, and have a working knowledge of harmonic progression, musical forms and structures.
2. Have knowledge and understanding of the historical development of music, its historical periods, genres, instrumentation and composers, within their cultural context.
3. Have practical knowledge of performance practice in their particular ensemble performing styles.
4. Have proficiency of solo repertoire and technical studies in their major instrumental or vocal area of study.
5. Be competent with music technology in its various forms for composition, teaching, and professional pursuits.
6. Be able to work independently on varieties of musical problems by combining their capabilities in performance, aural, verbal and visual analysis, composition, repertoire, knowledge, and music history.
7. Have writing skills with the ability to independently utilize research tools and resources (library, internet, etc.)

ASSOCIATE OF ARTS

MUSIC

For the Associate of Arts Degree in Music, complete the coursework listed below as well as the General Education requirements. Consult a Los Medanos College counselor to develop your education plan.

| REQUIRED COURSES: | UNITS |
|---|------------------|
| MUSIC-005 or 6 Recital Class (2 semesters) | 2 |
| MUSIC-013 Musicianship I | 2 |
| MUSIC-014 Musicianship II | 2 |
| MUSIC-015 Basic Music (or pass theory placement exam) | 3 |
| MUSIC-016 Fundamentals of Music Theory | 3 |
| MUSIC-017 Harmony | 4 |
| MUSIC-018 Advanced Harmony | 4 |
| MUSIC-031 Piano I | 1.5 |
| MUSIC-032 Piano II | 1.5 |
| or MUSIC-033A Intermediate Piano | 1.5 |
| MUSIC-033B Advanced Piano | 1.5 |
| MUSIC-081 Introduction to Improvisation | 1.5 |
| TOTAL UNITS | 21.5-24.5 |

Music Major Ensemble Requirements

AND SELECT A MINIMUM OF SIX ENSEMBLES/COURSES FROM:

| | |
|---|-----|
| MUSIC-040 Concert Band | 2 |
| MUSIC-020 Baroque Ensemble | 1 |
| MUSIC-050 Chamber Ensemble: Brass and Percussion | |
| MUSIC-052 Chamber Ensemble: Strings | 1 |
| or MUSIC-054 Chamber Ensemble: Woodwind, Vocal and Piano | 1.5 |

| | |
|--|-------------|
| MUSIC-060 College Chorus | 2 |
| MUSIC-066 Gospel Choir | 1.5 |
| MUSIC-070 Jazz Ensemble | 2 |
| MUSIC-071 Large Jazz Ensemble styles of Count Basie and John Coltrane | 2 |
| MUSIC-072 Large Jazz Ensemble styles of Gil Evans and Dizzy Gillespie | 2 |
| or MUSIC-073 Large Jazz Ensemble styles of Thad Jones and Marie Schneider | 2 |
| MUSIC-074 Jazz Studio | 2 |
| MUSIC-077 Chamber Chorale | 1 |
| MUSIC-082 Intermediate Improvisation Jazz Workshop | 2 |
| MUSIC-250 Night Jazz Band | 1 |
| TOTAL UNITS | 7-12 |

TOTAL UNITS FOR THE MAJOR 28.5-36.5

TOTAL UNITS FOR THE DEGREE 60

NOTE: Summer Ensembles will not fulfill the above requirements.

STUDENTS WITH AN ADVANCED GUITAR OR ADVANCED PIANO EMPHASIS MAY CHOOSE TO FULFILL THE ENSEMBLE REQUIREMENT BY COMPLETING FOUR SEMESTERS OF THE FOLLOWING:

| | |
|--|-----|
| MUSIC-033A/B Intermediate/Advanced Piano | 1.5 |
| or MUSIC-037 Advanced Guitar | 1.5 |
| and | |

Select two additional semesters from any performance class.

NOTE: Summer ensembles will not fulfill the above requirements.

Program Student Learning Outcomes

1. Understand and be able to apply the fundamentals of music theory, aural, and have a working knowledge of harmonic progression, musical forms and structures.
2. Have knowledge and understanding of the historical development of music, its historical periods, genres, instrumentation and composers, within their cultural context.
3. Have practical knowledge of performance practice in their particular ensemble performing styles.
4. Have proficiency of solo repertoire and technical studies in their major instrumental or vocal area of study.
5. Be competent with music technology in its various forms for composition, teaching and professional pursuits.
6. Be able to work independently on varieties of musical problems by combining their capabilities in performance, aural, verbal and visual analysis, composition, repertoire, knowledge, and music history.
7. Have writing skills with the ability to independently utilize research tools and resources (library, internet, etc.).

CERTIFICATE OF ACHIEVEMENT

MUSIC BUSINESS MANAGEMENT

| REQUIRED COURSES: | | UNITS |
|---|---|----------------|
| BUS-186 | Principles of Financial Accounting | 4 |
| BUS-027 | Small Business Management | 3 |
| BUS-294 | Business Law | 3 |
| MUSIC-012 | Popular Music in American Culture | 3 |
| MUSIC-013 | Musicianship I | 2 |
| MUSIC-015 | Basic Music (or pass theory placement exam) | 3 |
| MUSIC-028 | Songwriting I | 1 |
| MUSIC-030 | Basic Keyboard Skills | 1.5 |
| MUSIC-081 or MUSIC-082 | Introduction to Improvisation Intermediate Improvisation Jazz Workshop | 1.5 2 |
| MUSIC-089 | Music and Recording Industry Business | 2 |
| MUSIC-093 | Studio Music Production I | 2 |
| RA-010 | Introduction to Recording Arts | 3 |
| RA-021 | The Role of the Producer (Basic Session Producing) | 2 |
| Any performance classes (See list of music major ensemble requirements, page 201) | | 4-8 |
| TOTAL UNITS | | 32-39.5 |

AND SELECT TWO COURSES FROM:

| | | |
|--|----------------------------------|----------------|
| MUSIC-034 | Jazz/Rock Keyboard | 1.5 |
| MUSIC-065 | Class Voice | 1 |
| MUSIC-067 or Two additional group performance-oriented courses in addition to those completed for the core requirement, page 201. | Jazz and Popular Vocal Technique | 1 |
| TOTAL UNITS FOR THIS CERTIFICATE | | 34-43.5 |

Program Student Learning Outcomes

- Understand and be able to apply the fundamentals of music theory, aural, and have a working knowledge of harmonic progression, musical forms and structures.
- Have practical knowledge of performance practice in their particular ensemble performing styles.
- Have proficiency of solo repertoire and technical studies in their major instrumental or vocal area of study.
- Have writing skills with the ability to independently utilize research tools and resources (library, internet, etc.).
- Have abilities to understand and navigate music software programs.
- Have proficiency in basic accounting, small business law, corporate law, entertainment law, state regulations, and artist management.
- Apply the acquired information from this certificate towards potential employment as a small business owner, artist manager, music personnel manager, and music critic.

Music career possibilities include:

- Professional musician** — conductor, concert artist, studio musician, symphony orchestra member, opera singer, composer, accompanist, arranger;
- Teaching music** — band director, orchestra director, choir director, private instructor, music teacher (elementary through college in public or private schools);
- Commercial** — instrument sales, instrument repair, pop singer, orchestrator, arranger, music publisher, music activities producer, agent-manager, songwriter;
- Radio, TV, recording industry** — disc jockey, recording artist, recording engineer, movie, TV, radio music director (see also Recording Arts section);
- Church-related** — minister of music, organist, and choir director;
- Other** — music therapist, music librarian, piano tuner, acoustical engineer, music personnel manager, accompanist, music critic, music software writer/technician.

Students pursuing an associate degree will find it difficult to complete all of the general education requirements and the program requirements in two years. Students should budget time and plan carefully. Instructors in the music area will assist students in determining the proper sequence of classes.

COURSE DESCRIPTIONS

MUSIC-001 Music Studio 1 (Pitch / Rhythm)

27 total hours lab
.5 Unit

ADVISORY: Eligibility for ENGL-090; Concurrent enrollment in any music performance course

This course is designed for the music student who needs further development on mechanics of vocalizing or playing an instrument or in the conceptual development in the theory of music as related to musical pitch and rhythm. The material is designed to be used individually or in any sequence. May not be repeated.

LMC: DA

TRANSFER: CSU

MUSIC-002 Music Studio 2 (Tone / Technique)

27 total hours lab
.5 Unit

ADVISORY: MUSIC-001; eligibility for ENGL-090; Concurrent enrollment in any music performance course.

Designed for the music student who needs further development on mechanics of vocalizing or playing an instrument or in the conceptual development in the theory of music as related to musical tone and technique beyond the work done in MUSIC-001. The material is designed to be used individually or in any sequence. May not be repeated.

LMC: DA

TRANSFER: CSU