MATH R125—Differential Equations with 5 units
Linear Algebra
Prerequisites: MATH R121.
3 hours lecture weekly
This is an introductory course in differential equations with linear algebra for mathematics, physical science, computer science, and engineering major students who have completed at least a two-course sequence in calculus. Topics include vector spaces, matrices, determinants, linear transformations, eigenvectors and canonical forms, ordinary differential equations and systems of equations, Laplace transform techniques and step and impulse functions, power series solutions and Bessel's equation, Fourier series and introduction to partial differential equations. This course may also include opportunities to use a computer to assist in solving problems and in graphing solutions.
Transfer credit: UC, CSU
MATH R198A-Z—Advanced Short Courses ½-10 units
in Mathematics
Prerequisites: MATH R014 or MATH R014B.
Lecture and/or lab hours as required by unit formula
Advanced Short Courses in Mathematics provides courses in selected areas of mathematics to meet specific needs of the college or the community when those needs are not met by regular course offerings. The length of the course will determine the unit credit. Field trips may be required. (2)
Transfer credit: CSU
MATH R199—Directed Studies in Math 1-3 units
Prerequisites: MATH R014.
Lecture and/or lab hours as required by unit formula
This transfer-level course is designed for students interested in furthering their knowledge on an independent study basis. Topics will vary, depending on the individually designed plan of study and project(s), including a weekly consultation with the instructor. Field trips may be required. Course may be taken two times. (2)
Transfer credit: CSU

MICROBIOLOGY
See courses in Biological Sciences

MUSIC
Whether it’s the White Stripes or Mozart; the guitar or the piano; learning to play, listen to or compose music — students can experience all of it in the music department at Oxnard College.

In MUSIC APPRECIATION (MUS R103A) — Students will learn how much classical music has influenced so many popular and rock musicians.

In the HISTORY OF ROCK MUSIC (MUS R116) — Students will hear more styles of rock music than they probably even knew existed.

In MUSIC FUNDAMENTALS (MUS R101) — Students learn to read music and develop the skills to compose their own original musical pieces.

In CLASS PIANO (MUS R107) — Students will receive instruction in piano and guitar, learn how to read music, explore the principles of scales, choruses, time signatures, musical symbols and keyboard fingering.

In INTRO TO GUITAR (MUS R118) — Students will cover the fundamentals of guitar and related musicianship; basic techniques and repertoire (folk guitar) and chordal accompaniment. Students must furnish their own instruments.

Career Opportunities

<table>
<thead>
<tr>
<th>Accompanist</th>
<th>Musicologist/Researcher</th>
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<tr>
<td>Arranger/Orchestrator</td>
<td>Music Business Administrator</td>
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<tr>
<td>Conductor/Music Director</td>
<td>Performer</td>
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Faculty

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
<th>Part-Time</th>
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<tbody>
<tr>
<td>James Kenney</td>
<td>Michael Bonn</td>
<td>Carlos Gonzales</td>
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<tr>
<td>Joel Druckman</td>
<td>Bruce Edmiston</td>
<td>Fundi Legohn</td>
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Music Courses

MUS R101—Fundamentals of Music 3 units
3 hours lecture weekly
Fundamentals of Music is designed for students with little or no prior understanding of music who wish to learn to read music. The objective is to gain a basic understanding of scales, intervals, chords, key signatures, time signatures, musical symbols and the piano keyboard.
Transfer credit: UC, CSU
MUS R103A—Music Appreciation I: Listening and Understanding 3 units
3 hours lecture weekly
This course is a survey of music history with an emphasis on Western music from the Medieval period to the present day. In addition, World music, Jazz, Rock music, Broadway and other styles will be examined, albeit briefly. Special emphasis is given to understanding and enjoying the listening experience. (2)
Transfer credit: UC, CSU
MUS R106—College Choir 2 units
1 hour lecture, 3 hours lab weekly
The Oxnard College Choir, a singing organization open to all students, learns and performs a wide variety of choral music from both the classical and popular repertories. The choir performs at musical events on campus and/or off-site events in the community. Field trips may be required. Course may be taken four times. (2)
Transfer credit: UC, CSU
MUS R107A—Class Piano I 2 units
1 hour lecture, 3 hours lab weekly
This course starts with fundamentals of piano playing. It continues through accompaniments, studies in piano literature, to reading choral scores, improvisation and harmonization of melodies. (2)
Transfer credit: UC, CSU
MUS R107B—Class Piano II 2 units
Prerequisites: MUS R107A.
1 hour lecture, 3 hours lab weekly
Studies continue with additional major scales, cadence chord progressions, damper pedal technique, and further introductory/intermediate literature. (2)
Transfer credit: UC, CSU
MUS R107C—Class Piano III 2 units
Prerequisites: MUS R107B.
1 hour lecture, 3 hours lab weekly
Studies continue with all remaining major scales, more intermediate piano literature, technique, improvisation, harmonization and sight-reading. (2)
Transfer credit: UC, CSU
MUS R107D—Class Piano IV 2 units
Prerequisites: MUS R107C.
1 hour lecture, 3 hours lab weekly
Studies continue in more advanced piano literature, technique, improvisation, harmonization and sight-reading. (2)
Transfer credit: UC, CSU
MUS R110A—Voice I: Fundamentals of Vocal Techniques 3 units
2½ hours lecture, 1½ hours lab weekly
Designed to begin development of vocal potential, to lay a foundation for proper vocal production, and to correct faulty singing. Material consists of song literature sung in English and vocal exercises. Basically for non-music majors or persons with little singing experience. (2)
Transfer credit: UC, CSU
MUS R110B—Voice II: Vocal Development and the Art of Song 3 units
Prerequisites: MUS R110A.
2½ hours lecture, 1½ hours lab weekly
Continuation of MUS R110A in development of proper vocal production; English, Italian, French, and German art songs studied. Standards and jazz styling introduced. Recommended that singers with adequate vocal technique begin with MUS R110B. (2)
Transfer credit: UC, CSU

MUS R110C—Voice III: Vocal Development and the Aria 3 units
Prerequisites: MUS R110B.
2½ hours lecture, 1½ hours lab weekly
Continuation of vocal development through study of more challenging classical literature (e.g. Bach, Handel, Mozart). Songs by contemporary American composers and from musical theatre (e.g. Webber and Sondheim) may also be studied. (2)
Transfer credit: UC, CSU

MUS R110D—Voice IV: Voice in Musical Theatre Workshop 3 units
Prerequisites: MUS R110C.
2½ hours lecture, 1½ hours lab weekly
Study of song literature from opera and musical theatre; studying and performing operas and musical plays in excerpt. Designed for singers with proven ability and interest in drama. (2)
Transfer credit: UC, CSU

MUS R115—History of Rock Music 3 units
3 hours lecture weekly
This course is a musical and cultural survey of popular music widely referred to as Rock and Roll. Musical trends are followed from influential traditions of early blues and jazz at the beginning of the twentieth century and include the emergence of Rock and Roll in the early 1950s, Motown, the “British Invasion,” Art Rock, Heavy Metal, Punk, Rap and Hip-Hop, Techno, Grunge, Electronica, Garage Rock and Modern Rock. (2)
Transfer credit: UC, CSU

MUS R117—Stage Band 1 unit
Advisory: Ability to play a musical instrument commensurate with a stage band.
3 hours lab weekly
This course provides practical experience in rehearsing and performing music in popular, jazz, and jazz-rock styles arranged for stage band. Public performances on campus and in the community are required. Course may be taken four times. (2)
Transfer credit: UC, CSU

MUS R118—Introduction to Guitar 1 unit
3 hours lab weekly
The course emphasizes the fundamentals of guitar and related musicianship: basic techniques and repertoire to the folk guitar, and chordal equipment to folk singing. Students furnish their own instruments. Field trips may be required. Course may be taken four times. (2)
Transfer credit: UC, CSU

MUS R119—History of Jazz 3 units
3 hours lecture weekly
Examination of musical elements as they apply to Jazz; historical survey of major jazz styles from origins to most recent trends. (2)
Transfer credit: UC, CSU

MUS R119A—Directed Studies in Music 1-3 units
Prerequisites: A course in the specific field.
Lecture and/or lab hours as required by unit formula
Designed for students interested in furthering their knowledge of music on an independent study basis; assigned problems will involve library, lab, and field work. Course may be taken two times.
Transfer credit: CSU

MUS R119B—Voice V: Musical Theatre 3 units
2½ hours lecture, 1½ hours lab weekly
Continuation of MUS R110D in development of the five basic singing skills: diction, interpretation, acting, vocal dynamics, and stage presence. Songs by contemporary American composers and from musical theatre (e.g. Webber and Sondheim) may also be studied. (2)
Transfer credit: UC, CSU

MUS R120—Survey of Music Literature 3 units
2½ hours lecture, 1½ hours lab weekly
Study of song literature from opera and musical theatre; studying and performing operas and musical plays in excerpt. Designed for singers with proven ability and interest in drama. Recommended that singers with adequate vocal technique begin with MUS R110B. (2)
Transfer credit: UC, CSU

MUS R121—Survey of American Music 3 units
2½ hours lecture, 1½ hours lab weekly
Study of American music since 1920 and its influence on world music. It includes classical music by American composers, folk music styles, and American popular music. Class requirements include musical analysis and performance. Field trips may be required. (2)
Transfer credit: CSU

MUS R122—Survey of Contemporary Music 3 units
2½ hours lecture, 1½ hours lab weekly
This course is a musical and cultural survey of contemporary music, including music with rock, jazz, and other influences, and the developments of the 20th century. Field trips may be required. (2)
Transfer credit: UC, CSU

MUS R123—Survey of World Music 3 units
2½ hours lecture, 1½ hours lab weekly
This course is a musical and cultural survey of music from all over the world, from early times to the present. Field trips may be required. (2)
Transfer credit: UC, CSU

PERSONAL GROWTH
The Personal Growth course offerings provide an assortment of courses which enable people to better understand themselves, institutions, and the work world, with a professional counselor as instructor, advisor, and/or facilitator.

Faculty

Full-Time/Counselor
Ross Fontes
Daniel Goicoechea
David Lopez
Gloria Lopez

Personal Growth Courses

PG R001—Orientation: All About Oxnard College ½ unit
1½ hours lecture weekly
This course offers information about academic counseling, transferring to a four-year institution, vocational programs, study skills, college activities and clubs, student services, and basic survival hints. Not applicable for degree credit. (1)
Transfer credit: CSU

PG R098—Personal Growth Short Courses ½-1 unit
Lecture and/or lab hours as required by unit formula
This course is designed to meet specific needs of our community and students in the area of personal growth topics such as time management, study skills, major specific information (nursing, teaching, social work, etc.). Not applicable for degree credit. (2)
Transfer credit: CSU

PG R100A—Student Success: EOPS 1 unit
1 hour lecture weekly
This course is designed to provide students with college survival strategies: Learn what the Extended Opportunity Programs and Services (EOPS) are, tour the campus, use the college catalog, explore university websites, identify the requirements for graduation and transferring to a four year university, navigate the financial aid process and requirements, review academic policy, utilize career search services, identify additional support services, review available study skills and develop an educational plan. (1)
Transfer credit: CSU

PG R101A—Career Development and Life Planning I 3 units
3 hours lecture weekly
This course assists students systematically to examine components of career choice; focuses on career awareness, personal awareness, and educational awareness as they relate to the process of career choice. Students will develop planning skills and self-assessment instruments will help identify tentative career possibilities. Field trips may be required.
Transfer credit: CSU

PG R102—College Success 3 units
3 hours lecture weekly
This course provides the opportunity for students to learn and adopt principles, techniques, methods and strategies to be successful in college and in life. This will be accomplished by emphasizing three areas: (1) academic skills; (2) behavioral principles; and (3) relational skills. Field trips may be required. (2)
Transfer credit: CSU

PG R198A—Short Courses in Personal Growth ½-10 units
Lecture and/or lab hours as required by unit formula
These course offerings in personal growth are designed to meet the specific needs of the college and community as required and/or requested by persons or organizations. Field trips may be required. (2)
Transfer credit: CSU