2015–16 Catalog Addendum Summary/Table of Contents

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This catalog addendum should be used by students and staff along with the existing 2015–2016 Catalog.

Students are strongly encouraged to seek advice from the Counseling Center. Additional information and publications will be made available to students throughout the year as appropriate.
Addendum to the 2015–16 Catalog

DIGITAL MEDIA

Updated Major Section (page 105)

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60-70 transferable units
California State University
University of California
Independent Colleges and Universities

AA Associate in Arts Degree
Digital Media: Broadcast and Electronic Media ............... 60 units
Digital Media: Digital Video Production .......................... 60 units
Digital Media: Graphic Design ..................................... 60 units
Digital Media: Web Design/Multimedia .......................... 60 units

CA Certificate of Achievement
Digital Media: Graphic Production ................................. 27 units
Digital Media: Web Design/Multimedia .......................... 21 units

CS Certificate of Specialization
Digital Media: Digital Video ........................................ 9 units
Digital Media: Web Design/Multimedia .......................... 12 units

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for Digital Media for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

AA Digital Media: Broadcast and Electronic Media (formerly Digital Media: Television Producing)
The Broadcast and Electronic Media degree prepares students for entry level work as a media producer. This degree focuses on creating regular TV programming, writing, and producing video. Hands-on courses provide training in camera operation, news reporting, video editing and on-air talent, including voiceover and on-camera announcing.

CSM's Broadcast and Electronic Media program is helping to train the next generation of media makers, equipping them with technical skills, an ethical conscience, and an understanding of how media affects society. This 21st century program prepares students for a career in broadcasting through professional hands-on training. Students in Broadcast and Electronic Media can choose from three A.A. Degrees and four Certificates of Specialization, earn transfer credits, or just build their career skills. Students have the opportunity to explore a variety of possible career choices within the broadcasting industry: TV and video producing, directing, lighting, camera operation (in the studio and field), video editing, scriptwriting, on-air talent, audio recording and mixing, and radio programming. Students can expect rigorous training and real world projects. TV training takes place in CSM's state-of-the-art TV studio, which is located inside a full-time broadcast station, KCSM-TV. Some classes produce programming that is broadcast on KCSM, so students work on TV shows that will air in a top-ten media market. Students enrolled in radio production will produce programming for a web-based college radio station.

Upon completion of degree requirements, students will be able to:
1. Produce television segments that serve target viewers
2. Identify possible effects of media productions on audiences

Complete General Education and other requirements listed for the Associate degree and

Major Requirements: 18 semester units
A grade of “C” or higher is required for each course applied to the major.

DGME 100 Media in Society ......................................... 3 units
DGME 101 Writing Across the Media .............................. 3 units
DGME 112 TV Studio Production ................................. 3 units
DGME 113 Digital Video Production ............................. 3 units
DGME 128 On-Air Talent .......................................... 3 units
DGME 118 Digital Audio Production ............................. 3 units

AA Digital Media: Digital Video Production
The Digital Video Production degree prepares students for entry level work in TV and video production. This degree concentrates on broadcast level TV production and shooting and editing digital video. There are hundreds of production companies and TV stations throughout California that employ qualified directors of photography, video journalists, and video editors who have the type of training this program offers.

Upon completion of degree requirements, students will be able to:
1. Demonstrate technical proficiency in video production and postproduction,
2. Analyze the artistic and technical aspects of video productions such as composition, sound, lighting, and continuity.

Complete General Education and other requirements listed for the Associate degree and

Major Requirements: 24 semester units
A grade of “C” or higher is required for each course applied to the major.

DGME 100 Media in Society ......................................... 3 units
DGME 102 Media Law and Ethics ................................ 3 units
DGME 112 TV Studio Production ................................. 3 units
DGME 113 Digital Video Production ............................. 3 units
DGME 118 Digital Audio Production ............................. 3 units
DGME 120 Advanced Video and Editing .................................. 3 units
DGME 130 Lighting for Studio and Field .................................. 3 units
DGME 155 TV Production II .................................................. 3 units

**CS Digital Media: Digital Video**

Upon completion of certificate requirements, students will be able to:

1. Use video editing to tell a story.
2. Enhance and improve video with purposeful graphics.

**9 semester units**

A grade of “C” or higher is required for each course applied to the certificate.

DGME 113 Digital Video Production ....................................... 3 units
DGME 120 Advanced Video and Editing .................................. 3 units
DGME 143 Motion Graphics .................................................. 3 units

**AA Digital Media: Graphic Design**

Graphic Design prepares students for entry-level work in the visual media industry. The curriculum includes basic visual literacy and visual communication skills, the complete software package necessary for employment, typography, graphic design theory and application, and production classes that provide real-world hands-on learning experiences.

The skills that graphic designers possess transcend media boundaries. They may work in print media such as publishing, advertising and package design or three-dimensional media such as environmental graphics, exhibit or display design, or signage. They may design for electronic media such as television, the web, or multimedia or they may create motion graphics and titling for film and video. They may work in information design and interface design.

They may design packaging, books, magazines, and posters, all forms of advertising, corporate communications, corporate identity, environmental and retail design, web design, education design, or nonprofit design. Their creativity and skills are necessary wherever a message and an audience meet, regardless of the media.

Upon completion of degree requirements, students will be able to:

1. Synthesize visual solutions to graphic problems by integrating information and ideas.
2. Design and produce original solutions to graphic problems using technology and software central to the graphics industry effectively.
3. Analyze, compare and contrast the effectiveness of their own original design work and the work of others.

Complete General Education and other requirements listed for the Associate degree and

**Major Requirements: 31 semester units**

A grade of “C” or higher is required for each course applied to the major.

DGME 103 Thinking Visually: Fundamentals of Two-Dimensional Design .................................................. 3 units
DGME 211 Media Design I: Illustrator ..................................... 3 units

DGME 212 Media Design II: Photoshop .................................... 3 units
DGME 168 Web Design II ................................................... 3 units
DGME 220 Typography ....................................................... 3 units
DGME 230 Publication Design and Production with InDesign .................................................. 3 units
DGME 235 Graphic Design Theory and Application ................. 4 units
DGME 240 Digital Publishing ................................................ 4 units
DGME 250 Digital Media Practicum ....................................... 3 units
DGME 255 Portfolio ........................................................... 2 units

**AA Digital Media: Web Design/Multimedia**

Web designers are responsible for creating the look and feel of World Wide Web pages for a client’s website. This involves developing an interface design that effectively communicates the ideas being promoted by the website. A web designer may take part in the initial planning of a website, meeting with the clients to discuss ideas for the layout and organization of the site, and other matters concerning the overall design and accessibility of the site. Web designers may also be involved with programming and project management.

The work environments of web designers include working for large and medium sized corporations, web design and development firms, government agencies, academic organizations, non-profit organizations, and internet companies, or working as independent web designers.

Upon completion of degree requirements, students will be able to:

1. Demonstrate web editing software
2. Differentiate and construct web graphic formats
3. Differentiate the different scripting languages
4. Evaluate the limitations of the web
5. Know legal and ethical issues

Complete General Education and other requirements listed for the Associate degree and

**Major Requirements: 21 semester units**

A grade of “C” or higher is required for each course applied to the major.

DGME 102 Media Law and Ethics .......................................... 3 units
DGME 167 Web Design I ..................................................... 3 units
DGME 168 Web Design II ................................................... 3 units
DGME 169 Web Design III: HTML5, CSS & Javascript ........... 3 units
DGME 165 Digital Animation .............................................. 3 units
DGME 220 Typography ....................................................... 3 units
DGME 220 Digital Media Practicum ..................................... 3 units
CA Digital Media: Web Design/Multimedia
For gainful employment information, see the program's website: collegeofsanmateo.edu/gedi/docs/dgme-ca-webdesign.htm

Upon completion of certificate requirements, students will be able to:
1. Describe design concepts at various stages of development relating to the design process and use of appropriate software.
2. Demonstrate the ability to work in teams effectively.
3. Apply critical thinking and creative problem-solving skills to a variety of design and production cases.
4. Employ theoretical knowledge, skills and attitudes to real world issues/situations.
5. Develop and evaluate student project-based learning activities.
6. Demonstrate proficiency with design processes and software tools.

21 semester units
A grade of "C" or higher is required for each course applied to the certificate.

DGME 102 Media Law and Ethics ...................... 3 units
DGME 165 Digital Animation ..................... 3 units
DGME 166 Web Authoring: ActionScript ........... 3 units
DGME 167 Web Design I .................. 3 units
DGME 168 Web Design II .................. 3 units
DGME 169 "Web Design III: HTML5, CSS & Javascript …… 3 units
DGME 220 Typography .......................... 3 units

CS Digital Media: Web Design/Multimedia
Upon completion of certificate requirements, students will be able to:
1. Describe developer concepts at various stages of development relating to the developer process and use of appropriate software.
2. Demonstrate the ability to work in teams effectively.
3. Apply critical thinking and creative problem-solving skills to a variety of developer and production cases.
4. Employ theoretical knowledge, skills, and attitudes to real world issues / situations.
5. Demonstrate proficiency with developer processes and software tools.

12 semester units
A grade of "C" or higher is required for each course applied to the certificate.

DGME 165 Digital Animation ...................... 3 units
DGME 166 Web Authoring: ActionScript ........... 3 units
DGME 167 Web Design I .................. 3 units
DGME 168 Web Design II .................. 3 units

CA Digital Media: Graphic Production
For gainful employment information, see the program's website: collegeofsanmateo.edu/gedi/docs/dgme-ca-graphicproduction.htm

The Graphic Production certificate prepares students for entry-level work in the visual media industry. The curriculum includes basic visual literacy and visual communication skills, the complete software package necessary for employment, typography, graphic design theory and application, and production classes that provide real-world hands-on learning experiences.

Graphic production is required in print media such as publishing, advertising and package design and in three-dimensional media such as environmental graphics, exhibit or display design, or signage. Graphic production is also a part of electronic media such as television, the web, or multimedia including motion graphics and titling for film and video.

Upon completion of certificate requirements, students will be able to:
1. Create original graphic design / web design projects using comprehensive production and business techniques.
2. Create an original portfolio in order to pursue employment or college transfer opportunities.
3. Collaborate effectively with project team members and industry professionals.
4. Demonstrate a holistic understanding and practical ability to complete an industry standard graphic design / web design project from inception to completion.

27 semester units
A grade of "C" or higher is required for each course applied to the certificate.

DGME 210 Media Design I: Illustrator .................. 3 units
DGME 212 Media Design II: Photoshop ............... 3 units
DGME 213 Media Design III: Advanced Illustrator and Photoshop .................. 3 units
DGME 220 Typography .......................... 3 units
DGME 230 Publication Design/Production with InDesign .... 3 units
DGME 168 Web Design II .................. 3 units
DGME 240 Digital Publishing ....................... 4 units
DGME 250 Digital Media Practicum ................. 3 units
DGME 255 Portfolio .......................... 2 units
ELECTRONICS TECHNOLOGY

AS Industrial Electronics Technology

New Degree Addition

The Industrial Electronics Technology program at CSM prepares a student for entry-level employment as an electronics technician. Entry-level employment opportunities exist in many segments of the electronics industry in the greater Bay Area. Companies involved with circuit assembly and fabrication; installation, and support for food and pharmaceuticals processing, public utilities; component manufacturing; high-technology transportation; aerospace systems; automated process control; alternative energy and bio-tech all offer program graduates opportunities for entry-level employment.

Career opportunities in Electronics include work as an engineering aide, a technician, or a system operator. These individuals are involved with manufacturing, assembly, repair, upgrades, and service of a wide range of products or electrical systems. Electronics is the pathway to the future in Northern California, with increasing demands to modify and update the current infrastructure of the electrical generation and transmission capabilities, integration of alternative energy sources and future technical needs of society, job growth is expected over the next decade.

Upon Completion of Degree requirements, students will be able to:

1. Demonstrate basic and advanced electronic fundamentals.
2. Demonstrate the use and operation of test equipment (DVM’s, Frequency Generators, Oscilloscopes) when analyzing both AC and DC circuits.
3. Understand power systems and power factor as it relates to AC power transmission and generation.
4. Demonstrate the ability to program and operate a programmable logic controller.
5. Demonstrate an understanding of environmental measurement and sensory read back data to control and operate power or mechanical systems.
6. Demonstrate and understand remote and direct Industrial data communications.
7. Demonstrate and utilize hydraulic, pneumatic and vacuum systems in an industrial setting.

Complete General Education and other requirements listed for the Associate degree and

Major Requirements: 35 semester units

A grade of “C” or higher is required for each course applied to the major.

ELEC 111 Introduction to Electronics Fundamentals ......... 3 units
ELEC 112 Advanced Electronics Fundamentals ............ 3 units
ELEC 211 Basic Applied Electronics Mathematics ........ 2 units
ELEC 232 Advanced Electronics Mathematics ........... 1 unit
ELEC 405 Transformers and Rotating Machinery .......... 2 units
ELEC 421 Fundamentals of Electric Motor Control ......... 4 units
ELEC 422 Introduction to Programmable Logic Controllers 4 units
ELEC 424 Hydraulic, Pneumatic and Vacuum Power Systems 4 units
ELEC 441 Sensors and Data Transmission Systems ........ 4 units
ELEC 442 Electronic and Pneumatic Process Control Systems 4 units
ELEC 445 Industrial Data Communications Systems .... 4 units
HISTORY

Updated Degree Requirements (page 122)

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60–70 transferable units
California State University
University of California
Independent Colleges and Universities

AA-T Associate in Arts
Degree for Transfer/SB1440
History .................................................. 60 CSU transferable units

University Transfer Program

Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

AA-T History

The AA-T major in History prepares students for transfer into bachelor's degree programs in history and similar areas.

History course work in general is helpful to the student who intends to eventually pursue graduate studies in such diverse fields as history, education, and law. Most career opportunities associated with this discipline require the minimum of a B.A. degree. Some business firms and government agencies seek persons with a broad overview and perspective of historical phases and processes of change.

In addition to a career as a historian, career possibilities include anthropologist, antique dealer, archivist, attorney, book dealer, correspondent, customs inspector, college administrator/professor, foreign service officer, fund raiser, librarian, museum curator/technician, news editor, researcher/research analyst, theologian/clergy member, title examiner, and writer.

Upon completion of degree requirements, students will be able to:

1. Evaluate the evidence, ideas, and models needed to perceive how people(s) have related to each other in specific historical contexts and over discrete periods of time.
2. Read, write, and speak critically, mastering how to make informed historical judgments based on existing evidence.
3. Comprehend the historical and social context of major political, intellectual, religious, economic, and cultural developments in the area/time relevant to the course.

Major requirements: 18 semester units.

Complete General Education and major requirements as noted below. A grade of "C" or higher is required for each course applied to the major. Major course requirements may also be applied to meet general education requirements.

Required Core (12 units):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 100</td>
<td>History of Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 101</td>
<td>History of Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 201</td>
<td>United States History I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 202</td>
<td>United States History II</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus, two courses, one from each group (6 units):

Group A: Any diversity course defined as:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHN 101</td>
<td>Latin American and Indigenous Peoples History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 103</td>
<td>Asian Pacific American History and Cultural Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 104</td>
<td>Asian Pacific Islanders in United States History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 105</td>
<td>African American History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 110</td>
<td>Elementary Spanish</td>
<td>5</td>
</tr>
<tr>
<td>SPAN 112</td>
<td>Elementary Spanish II</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 120</td>
<td>Advanced Elementary Spanish</td>
<td>5</td>
</tr>
<tr>
<td>SPAN 121</td>
<td>Advanced Elementary Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 122</td>
<td>Advanced Elementary Spanish II</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 111</td>
<td>Elementary Chinese I</td>
<td>3</td>
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<tr>
<td>CHIN 112</td>
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</tr>
<tr>
<td>CHIN 121</td>
<td>Advanced Elementary Chinese I</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 122</td>
<td>Advanced Elementary Chinese II</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 131</td>
<td>Intermediate Chinese I</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 132</td>
<td>Intermediate Chinese II</td>
<td>3</td>
</tr>
</tbody>
</table>

Group B: Any history course or any non-history course from the humanities or social sciences related to history articulated as fulfilling CSU GE Area C or D or any introductory level social science course articulated as fulfilling CSU GE Area D:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 102</td>
<td>History of American Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 310</td>
<td>California History</td>
<td>3</td>
</tr>
<tr>
<td>ADM 100</td>
<td>Introduction to the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 110</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 150</td>
<td>Magic, Science and Religion</td>
<td>3</td>
</tr>
<tr>
<td>BUS 125</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>COMM 130</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>ECON 100</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>Cultural Geography</td>
<td>3</td>
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<tr>
<td>GEOG 150</td>
<td>World Regional Geography</td>
<td>3</td>
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<tr>
<td>PLSC 100</td>
<td>Introduction to Political Science</td>
<td>3</td>
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<td>PSYC 100</td>
<td>General Psychology</td>
<td>3</td>
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<tr>
<td>PSYC 105</td>
<td>Experimental Psychology</td>
<td>3</td>
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<tr>
<td>PSYC 110</td>
<td>Courtship, Marriage, and the Family</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 200</td>
<td>Developmental Psychology</td>
<td>3</td>
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</tbody>
</table>
PSYC 201 Child Development 3 units
PSYC 220 Introduction to Psychobiology 3 units
PSYC 225 Theories of Personality 3 units
PSYC 300 Social Psychology 3 units
PSYC 410 Abnormal Psychology 3 units
SOCI 100 Introduction to Sociology 3 units
SOCI 105 Social Problems 3 units
SOCI 110 Courtship, Marriage and the Family 3 units
SOCI 141 Race and Ethnic Relations 3 units
DGMF 100 Media in Society 3 units
DGMF 102 Media Law and Ethics 3 units

General Education requirements:
Select courses to complete CSU General Education OR IGETC for CSU. This degree does not require the CSM AA/AS General Education pattern on pages 69 & 70.

CSU GE:
Area A1 Oral Communication 3 units
Area A2 Written Communication 3 units
Area A3 Critical Thinking 3 units
Area B1 Physical Science 3 units
Area B2 Life Science 3 units
Area B3 Science Lab 1 unit
Area B4 Math Concepts 3 units
Area C1 Arts 3 units
Area C2 Humanities 3 units
Area C1 or C2 3 units
Area D Social, Political, and Economic Institutions 9 units
Area E Lifelong Understanding 3 units

OR

IGETC/CSU:
Area A1 English Composition 3 units
Area A2 Critical Thinking/Composition 3 units
Area A3 Oral Communication 3 units
Area A4 Social and Behavioral Science 3 units
Area A5 Physical Science 3 units
Area A6 Biological Science 3 units
Area A5 or A6 3 units
Area B1 or B2 3 units
Area C1 or C2 3 units
Area D Social, Political, and Economic Institutions 9 units
Area E Lifelong Understanding 3 units

Electives:
Additional CSU transferable courses based on student interest to reach 60 units total.

MUSIC

AA-T Music

New Degree Addition

The College of San Mateo Music Department provides a creative environment where every student may become enriched through an active association with the art of music and a faculty who are active in the music profession. The Music Department places strong emphasis upon performance as well as harmony, ear training, and composition, thus providing students with a strong musical foundation. The Associate in Arts in Music for Transfer offers students the opportunity to attain the basic skills and knowledge required for further undergraduate study and careers in music. It is intended to provide an expedited path for transfer into the CSU system for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing an Associate in Arts in Music for Transfer are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts the Associate in Arts in Music for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus, or a college or university that is not part of the CSU system, or those who do not intend to transfer. Students should consult with a College of San Mateo counselor when planning to complete the degree for further information on university admissions and transfer requirements. To earn an AA-T degree, students must meet the following requirements:

A. Complete a minimum of 60 CSU transferable units;
B. Earn a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework;
C. Complete a minimum of 18 units in an "AA-T" major. Note: All courses in the major must be completed with a grade of "C" or better. A "P" (Pass) grade is not an acceptable grade for the courses in the major.
D. Completion of the California State University General Education-Breadth (CSU GE Breadth) or the Intersegmental General Education Curriculum (IGETC) pattern.

Career Opportunities:
Career opportunities include: accompanist; arranger; composer; conductor; critic; band, orchestra or recording musician; lyricist; performing instrumentalist; music director; private music instructor; music producer; music publisher; music therapist; recording engineer; and teacher/professor. Additional career possibilities include choir director, music librarian, music minister, piano tuner, professional manager, recreation specialist, and soloist.

Program Learning Outcomes:
Upon Completion of Degree requirements, students will be able to:

- Gain basic technical proficiency and demonstrate artistic growth in musical performance on a given instrument and/or voice in both a solo and ensemble context, enabling self expression and
musical communication.

• Demonstrate practical knowledge of the underlying structures of voice leading and harmony throughout the common practice period in western music through written composition and analysis.

• Demonstrate fluency in audiation such as sight singing, rhythmic execution, and harmonic, melodic and rhythmic dictation.

Required Core: 20 units

MUS. 111 Musicianship I ........................................ 1 unit
MUS. 112 Musicianship II ........................................ 1 unit
MUS. 113 Musicianship III ....................................... 1 unit
MUS. 114 Musicianship IV ....................................... 1 unit
MUS. 131 * Harmony I ........................................... 3 units
MUS. 132 Harmony II ............................................ 3 units
MUS. 133 Harmony III .......................................... 3 units
MUS. 134 Harmony IV ........................................... 3 units
MUS. 501 Studio Lessons I (Applied Music I) ............... 1 unit
MUS. 502 Studio Lessons II (Applied Music II) ............. 1 unit
MUS. 503 Studio Lessons III (Applied Music III) .......... 1 unit
MUS. 504 Studio Lessons IV (Applied Music IV) .......... 1 unit

Select 4 units from the following:
(Ensemble courses may be taken four times)

MUS. 430 Symphonic Band .................................... 1 unit
MUS. 452 Repertory Jazz Band .............................. 1 unit
MUS. 470 Concert Choir ....................................... 1 unit

General Education requirements: Select courses to complete CSU General Education (CSU GE) or IGETC/CSU. This degree does not require the CSM AA/AS General Education pattern.

CSU GE:

Area A1 Oral Communication .................................. 3 units
Area A2 Written Communication .............................. 3 units
Area A3 Critical Thinking ...................................... 3 units
Area A4 Physical Science ...................................... 3 units
Area A5 Life Science .......................................... 3 units
Area A6 Science Lab .......................................... 1 unit
Area B1 Math Concepts ....................................... 3 units
Area B2 Arts ..................................................... 3 units
Area B3 Humanities ........................................... 3 units
Area B4 Critical Thinking ...................................... 3 units
Area B5 Social, Political, and Economic Institutions .... 9 units
Area B6 Lifelong Understanding .............................. 3 units
OR

IGETC/CSU:

Area A1 English Composition .................................. 3 units
Area A2 Critical Thinking/Composition .................... 3 units
Area A3 Oral Communication .................................. 3 units

Area 2 Math Concepts ......................................... 3 units
Area 3A Arts ..................................................... 3 units
Area 3B Humanities ............................................ 3 units
Area 3A or 3B ..................................................... 3 units
Area 4 Social and Behavioral Science ....................... 9 units
Area 5A Physical Science ..................................... 3 units
Area 5B Biological Science .................................... 3 units
Area 5C Science Lab - Either 5A or 5B
must have lab component ...................................... 1 unit

Electives: Additional CSU transferable courses based on student interest to reach 60 units total.

*Mus. 131 will be double counted to apply to meet general education requirement C1.
**NURSING – REGISTERED NURSING PROGRAM**

**Updated Degree Requirements (page 136)**

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

**University Transfer Program**

60 – 70 transferable units

California State University

University of California

Independent Colleges and Universities

---

**AS Associate in Science Degree**

Nursing ........................................ 78.5–79.5 units

**Recommended high school preparation:**

Coursework in Biology, Chemistry, Anatomy, English, Mathematics, Psychology

**University Transfer Program**

Use Assist ([www.assist.org](http://www.assist.org)) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

**Nursing Program Admissions Requirements**

Go to the CSM Nursing Program web site for the current admissions information ([collegeofsanmateo.edu/nursing](http://collegeofsanmateo.edu/nursing)). At this site print the Nursing Program Information Sheet and the Nursing Articulation Grid for detailed information about admissions requirements and processes. You may also contact the Nursing Department, (650) 574-6218.

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**AS Nursing**

The College of San Mateo Nursing Program provides students with opportunities for learning at the College, local hospitals, and related health agencies. Clinical practice begins early in the first semester. Upon graduation, the candidate receives an Associate in Science degree and is eligible to take the National Council Licensure Exam (NCLEX). The graduate is also eligible to transfer to a four-year nursing program.

Career opportunities are available in hospitals, physician's offices, clinics, labs, nursing and personal care facilities, public health and other government agencies, educational services, health and allied services, outpatient care facilities. Many nurses specialize in areas such as cardiac care, geriatrics, intensive care, obstetrics, pediatrics, and surgery. Specific career opportunities include nursing administrator, clinic nurse, critical care nurse, emergency department nurse, flight nurse, home health nurse, hospital staff nurse, industrial nurse, medical researcher, nurse anesthetist, nurse midwife, nurse practitioner, office nurse, public health nurse, school nurse, and teacher/educator.

Upon completion of degree requirements, students will be able to:

1. Apply nursing methods, protocols and procedures to appropriate care situations
2. Use the nursing process, which emphasizes critical thinking, independent judgment and continual evaluation as a means to determine nursing activities
3. Utilize theory and knowledge from nursing, the physical/behavioral sciences and the humanities in providing nursing care.
4. Identify and assess the healthcare needs of patients/clients using the tools/framework appropriate to the clinical setting
5. Document and evaluate the outcome of nursing and other interventions and communicate to team members
6. Prioritize care-delivery on an ongoing basis
7. Work in partnership with patients, clients, and caregivers
8. Engage in and disengage from therapeutic relationships through the use of effective interpersonal and counseling skills
9. Provide compassionate, culturally sensitive care to clients in a variety of settings
10. Adhere to the ANA Code of Ethics for nurses, treating patients as unique whole individuals with specific needs, desires, and abilities
11. Describe current legal and professional standards for nurses in relation to common clinical problems
12. Practice in a manner that respects patient confidentiality and adheres to HIPAA.
13. Appraise own professional performance accurately. Evaluate their professional learning needs and take steps to meet them

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 78.5–79.5 semester units**

A grade of “C” or higher is required in each course applied to the major.

NURS 211 Introduction to Nursing .......................... 4.5 units
NURS 212 Concepts of Homeostasis in Nursing ............. 4.5 units
NURS 221 Pediatric Nursing .................................... 4.5 units
NURS 222 Maternity Nursing .................................... 4.5 units
NURS 225 Nursing Skills Lab I ................................. 0.5 unit
NURS 231 Psychiatric Nursing .................................. 5 units
NURS 232 Medical/Surgical Nursing .......................... 5 units
NURS 235 Nursing Skills Lab III ............................... 0.5 unit
NURS 241 Advanced Medical/Surgical Nursing ............. 5 units
NURS 242 Leadership/Management in Nursing ............. 5 units
NURS 245 Nursing Skills Lab IV ............................... 0.5 unit
NURS 816 Open Lab for Nursing 211/212 .................... 0.5 unit
NURS 817 Open Lab for Nursing 221/222 .................... 0.5 unit
NURS 818 Open Lab for Nursing 231/232 .................... 0.5 unit
NURS 819 Open Lab for Nursing 241/242 .................... 0.5 unit
Students interested in an LVN upgrade through the ADN plan or 30 Unit Option should call the Nursing Department for additional information. Students who wish to transfer into the nursing program or challenge nursing courses should also call the Nursing Department.

*To comply with SB 139, students accepted into the nursing program who have completed a bachelor’s degree at a college or university in the United States that is accredited by an agency approved by the SMCCCD do not need to complete CSM prescribed general education courses. Only major courses listed above are required for the ADN degree for students with a bachelor’s degree.

**Requirements for R.N. Licensing Exam:**

1. Graduation from high school or equivalent
2. All major requirements listed
3. If an individual has been convicted of a crime, he or she should contact the Board of Registered Nursing regarding eligibility for licensure. Candidates are reviewed on a case by case basis.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 120</td>
<td>Intermediate Algebra</td>
<td>5</td>
</tr>
<tr>
<td>OR</td>
<td>MATH 122 Intermediate Algebra I</td>
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<tr>
<td>MATH 123</td>
<td>Intermediate Algebra II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 410</td>
<td>Health Science Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>General Microbiology</td>
<td>4</td>
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<tr>
<td>BIOL 250</td>
<td>Human Anatomy</td>
<td>4</td>
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<tr>
<td>BIOL 260</td>
<td>Human Physiology</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 100</td>
<td>General Psychology</td>
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<tr>
<td>PSYC 200</td>
<td>Developmental Psychology</td>
<td>3</td>
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<tr>
<td>SOCI 100</td>
<td>Introduction to Sociology</td>
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<tr>
<td>OR</td>
<td>ANTH 110 Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>COMM 110</td>
<td>Public Speaking</td>
<td>OR</td>
</tr>
<tr>
<td>COMM 130</td>
<td>Interpersonal Communication</td>
<td>OR</td>
</tr>
<tr>
<td>COMM 140</td>
<td>Small Group Communication</td>
<td>OR</td>
</tr>
<tr>
<td>COMM 150</td>
<td>Intercultural Communication</td>
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</tr>
<tr>
<td>ENGL 100</td>
<td>Composition and Reading</td>
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**Pre-admissions major requirements 37–38 units**

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>MATH 120 or MATH 122 and 123</td>
<td>Intermediate Algebra</td>
<td>5-6 units</td>
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<tr>
<td>CHEM 410</td>
<td>Health Science Chemistry I</td>
<td>4 units</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>General Microbiology</td>
<td>4 units</td>
</tr>
<tr>
<td>BIOL 250</td>
<td>Human Anatomy</td>
<td>4 units</td>
</tr>
<tr>
<td>BIOL 260</td>
<td>Human Physiology</td>
<td>5 units</td>
</tr>
<tr>
<td>ENGL 100</td>
<td>Composition and Reading</td>
<td>3 units</td>
</tr>
<tr>
<td>PSYC 100</td>
<td>General Psychology</td>
<td>3 units</td>
</tr>
<tr>
<td>PSYC 200</td>
<td>Developmental Psychology</td>
<td>3 units</td>
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<tr>
<td>SOCI 100</td>
<td>Introduction to Sociology</td>
<td>OR</td>
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<tr>
<td>OR</td>
<td>ANTH 110 Cultural Anthropology</td>
<td>3</td>
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<td>COMM 110</td>
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<td>COMM 140</td>
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<td>OR</td>
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<tr>
<td>COMM 150</td>
<td>Intercultural Communication</td>
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</tbody>
</table>

**Other Major requirements once accepted into the program 41.5 units**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>NURS 211</td>
<td>Introduction to Nursing</td>
<td>4.5</td>
</tr>
<tr>
<td>NURS 212</td>
<td>Concepts of Homeostasis in Nursing</td>
<td>4.5</td>
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<tr>
<td>NURS 221</td>
<td>Pediatric Nursing</td>
<td>4.5</td>
</tr>
<tr>
<td>NURS 222</td>
<td>Maternity Nursing</td>
<td>4.5</td>
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<tr>
<td>NURS 225</td>
<td>Nursing Skills Lab II</td>
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<td>NURS 231</td>
<td>Psychiatric Nursing</td>
<td>5</td>
</tr>
<tr>
<td>NURS 232</td>
<td>Medical/Surgical Nursing</td>
<td>5</td>
</tr>
<tr>
<td>NURS 235</td>
<td>Nursing Skills Lab III</td>
<td>0.5</td>
</tr>
<tr>
<td>NURS 241</td>
<td>Advanced Medical/Surgical Nursing</td>
<td>5</td>
</tr>
<tr>
<td>NURS 242</td>
<td>Leadership/Management in Nursing</td>
<td>5</td>
</tr>
<tr>
<td>NURS 245</td>
<td>Nursing Skills Lab IV</td>
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</tr>
<tr>
<td>NURS 816</td>
<td>Open Lab for Nursing 211/212</td>
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<tr>
<td>NURS 817</td>
<td>Open Lab for Nursing 221/222</td>
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</tr>
<tr>
<td>NURS 818</td>
<td>Open Lab for Nursing 231/232</td>
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</tr>
<tr>
<td>NURS 819</td>
<td>Open Lab for Nursing 241/242</td>
<td>0.5</td>
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