Emergency Medical Education-Engineering

EME 210 Hospital Clinical Experience
12 hours laboratory
Prerequisite: A minimum grade of C in EME 209 and EME 209L
Note: May be taken 2 times
Supervised clinical experience in acute care areas of hospitals where knowledge of advanced life support techniques is necessary.

EME 211 Clinical Integration I
1.5 hours laboratory
Corequisite: EME 207 and EME 207L or EME 208 and EME 208L
Note: May be taken 2 times; Pass/No Pass grading only
Application of assessment and BLS skills necessary to be successful in paramedic training.

EME 212 Clinical Integration II
1.5 hours laboratory
Corequisite: EME 209 and EME 209L or EME 210
Note: Pass/No Pass grading only; may be taken 2 times
Application of assessment and BLS skills necessary to be successful in paramedic training.

EME 215 Field Internship
9 hours laboratory
Prerequisite: A minimum grade of C in EME 210
Note: May be taken 2 times
Assignment to a response vehicle with a field preceptor. Includes direct patient care responsibilities in providing advanced life support.

EME 220 Paramedic Refresher
2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8 hours
Prerequisite: Provide proof of receiving a failing grade in one or more of the following courses: EME 207, 207L, 208, 208L, 210, 215 within the previous 24 months.
Provides students who were unsuccessful in one or more of the following courses: EME 207, 207L, 208, 208L, 210, 215 an opportunity to refresh, strengthen, and maintain their clinical abilities and knowledge base.

EME 222 OB/Peds Block Refresher
1, 2 hours lecture
Prerequisite: Provide proof of receiving a failing grade in one or more of the following courses: EME 210, 215 within the previous 24 months
Corequisite: EME 224
Provides students who were unsuccessful in one or more of the following courses: EME 210 or 215, an opportunity to refresh, strengthen, and maintain their academic knowledge base in obstetrical and pediatric medicine.

EME 224 Clinical Refresher
1/2 hour lecture - 3 hours laboratory
Prerequisite: Failure in EME 215
Corequisite: EME 223
Provides students who were unsuccessful in EME 215 an opportunity to refresh, strengthen, and maintain their clinical abilities and knowledge base.

EME 295 Directed Study in Emergency Medical Education
1, 2, 3 hours laboratory
Prerequisite: Approval of project or research by department chairperson/director
Note: May be taken 4 times
Independent study for students who have demonstrated skills and/or proficiencies in Emergency Medical Education subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

Associate in Arts Degrees -
AA Degree requirements are listed in Section 6 (green pages).
• Engineering

PROGRAMS OF STUDY

Engineering
Provides the background to begin upper division coursework and will prepare the student for entry level jobs that require a knowledge of engineering and engineering related topics. The highly sequential nature of the engineering curriculum necessitates completion of lower division requirements before being admitted into upper division courses.

Engineering students are urged to give priority to the completion of major field requirements over the completion of general education requirements. Engineering lower division requirements are not the same for different universities. These institutions recommend that their particular lower division requirements be completed before transfer. Students should seek early assistance in planning their specific program from the Counseling Department, the Transfer Center, or the Physics/Engineering Department.

A.A. DEGREE MAJOR

Program Requirements Units
(Select a minimum of 11 units)
ARCH/DT 125 or AutoCAD Introduction to Computer Aided Drafting 3
ENGR 126 Intro Electric/Computer Engineering 4
ENGR 210 Electrical Network Analysis 3
ENGR 210L Electrical Network Analysis Laboratory 1
ENGR 231 Engineering Measurement Analysis 3
ENGR 235 Engineering Mechanics Statics 3
ENGR 236 Engineering Mechanics Dynamics 3
ENGR 245 Properties of Materials 4

Electives (Select a minimum of 30 units)
Note that mathematics courses are often prerequisite to engineering and physics courses.
MATH 140* Calculus/Analytic Geometry, First Course 5
MATH 141 Calculus/Analytic Geometry, Second Course 4
MATH 205 Calculus/Analytic Geometry, Third Course 4
MATH 206 Calculus with Differential Equations 4
PHYS 230* Principles of Physics 5
PHYS 231 Principles of Physics 5
PHYS 232 Principles of Physics 4
CHEM 110* General Chemistry 3
CHEM 115* General Chemistry 3
CHEM 110L* General Chemistry Laboratory 2
CHEM 115L* General Chemistry Laboratory 2

MINIMUM TOTAL UNITS 41

Recommended Elective: ENGR 100
* Courses marked with an asterisk may be used to fulfill General Education requirements.
ENG 100, ENG 202, and BIOL 100 are highly recommended as electives to fulfill General Education requirements.

COURSE OFFERINGS

ENGR 100 Introduction to Engineering
1 hour lecture
Transfer acceptability: CSU, UC
An overview of the engineering profession including not only the different engineering fields but also the specialized demands and rewards of each. It will afford the opportunity for community building among the students, who usually are otherwise isolated in the community college milieu. Group projects in the course will encourage socialization and human relations training in what is

To satisfy a prerequisite, the student must have earned a letter grade of A, B, C or CR in the prerequisite course, unless otherwise stated. See Catalog addendum at http://www.palomar.edu/catalog/2011/ for updates and new program approvals.
often perceived as a dry and dull profession. Academic success strategies will be explained and practiced; ethical concepts will be examined through case histories and practical applications.

ENGR 126 Introduction to Electrical and Computer Engineering  
3 hours lecture - 3 hours laboratory  
**Prerequisite:** A minimum grade of ‘C’ in MATH 140  
**Transfer acceptability:** CSU

ENGR 197 Engineering Topics  
5-5 units  
Transfer acceptability: CSU

ENGR 210 Electrical Network Analysis  
3 hours lecture  
**Prerequisite:** A minimum grade of ‘C’ in ENGR 210L and PHYS 231, or concurrent enrollment in ENGR 210L and PHYS 231  
**Transfer acceptability:** CSU, UC

ENGR 210L Electrical Network Analysis Laboratory  
3 hours laboratory  
**Prerequisite:** A minimum grade of ‘C’ in ENGR 210, or concurrent enrollment in ENGR 210  
**Transfer acceptability:** CSU, UC

ENGR 231 Engineering Measurement Analysis  
2 hours lecture - 3 hours laboratory  
**Prerequisite:** A minimum grade of ‘C’ in MATH 140  
**Transfer acceptability:** CSU, UC

ENGR 235 Engineering Mechanics – Statics  
3 hours lecture  
**Prerequisite:** A minimum grade of ‘C’ in PHYS 230 and MATH 140  
**Transfer acceptability:** CSU, UC

ENGR 236 Engineering Mechanics – Dynamics  
3 hours lecture  
**Prerequisite:** A minimum grade of ‘C’ in ENGR 235  
**Transfer acceptability:** CSU, UC

ENGR 245 Properties of Materials  
3 hours lecture - 3 hours laboratory  
**Prerequisite:** A minimum grade of ‘C’ in CHEM 110 and 110L  
**Transfer acceptability:** CSU, UC

ENGR 295 Directed Study in Engineering  
1, 2, 3 hours laboratory  
**Prerequisite:** Approval of project or research by department chairperson  
**Note:** May be taken 4 times  
**Transfer acceptability:** CSU

English (ENG)  
Contact the English Department for further information.  
(760) 744-1150, ext. 2392  
Office: P-2

Associate in Arts Degrees -  
AA Degree requirements are listed in Section 6 (green pages).  
• English

**PROGRAM OF STUDY**

English  
Focuses on the English language and literatures in English. Provides the background for students to succeed in diverse fields, such as advertising and marketing, teaching, journalism and telecommunications, law, technical writing, and business administration. Prepares students for upper division course work in English. For specific transfer requirements, the student should consult an academic counselor or the catalog for the school to which he or she wishes to transfer.

**AA DEGREE MAJOR**

**English:**

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 205 and Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 202 or Critical Thinking/Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENG 203 Critical Thinking/Composition Through Literature</td>
<td>4</td>
</tr>
</tbody>
</table>

**Literature Surveys (Select 9 Units)**

Of these nine units, students must take either a two-semester survey of British literature or a semester each of British and United States literature.

<table>
<thead>
<tr>
<th>Course</th>
<th>Literature Survey</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 210</td>
<td>Survey of British Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 211</td>
<td>Survey of British Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 220</td>
<td>Survey of World Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 221</td>
<td>Survey of World Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 225</td>
<td>Literature of the United States I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 226</td>
<td>Literature of the United States II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Courses (Select 2 courses)**

Any of the above courses not previously taken or pick from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Elective Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 135</td>
<td>Introduction to Creative Writing</td>
<td>4</td>
</tr>
<tr>
<td>ENG 136</td>
<td>Intermediate Creative Writing</td>
<td>4</td>
</tr>
<tr>
<td>ENG 137</td>
<td>The Literary Magazine: History/Production</td>
<td>4</td>
</tr>
<tr>
<td>ENG 215</td>
<td>Introduction to the British Novel</td>
<td>3</td>
</tr>
<tr>
<td>ENG 230</td>
<td>Introduction to the American Novel</td>
<td>3</td>
</tr>
<tr>
<td>ENG 240</td>
<td>Introduction to Classical Mythology</td>
<td>3</td>
</tr>
<tr>
<td>ENG 245</td>
<td>Survey of Biblical Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 250</td>
<td>Introduction to Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENG 260</td>
<td>Literature Through Film</td>
<td>3</td>
</tr>
<tr>
<td>ENG 265</td>
<td>Science Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENG 270</td>
<td>Popular Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 280</td>
<td>Women and Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS**  
22 - 24