

**Genesee Community College**  
 530–Engineering Science–A.S.  
 SEMESTER COURSE PLANNING WORKSHEET  
 2008-2009

<b>Suggested First Semester</b>	<b>Credits</b>	<b>Suggested Second Semester</b>	<b>Credits</b>
ENG101 (By Placement)	3	ENG102 or ENG105	3
MAT141	4	MAT142	4
PHY131	4	PHY132	4
SPE103 or SPE108 or SPE109	3	CHE102	4
CHE101	4	HEALTH/PE/REC	2
<b>Total</b>	<b>18</b>	<b>Total</b>	<b>17</b>
<b>Suggested Third Semester</b>	<b>Credits</b>	<b>Suggested Fourth Semester</b>	<b>Credits</b>
HISTORY ELECTIVE	3	RESTRICTED ELECTIVE	3
MAT245	4	RESTRICTED ELECTIVE	3
EGR235	3	PHY133	4
CIS125	3	MAT255	4
SOCIAL SCIENCE ELECTIVE	3	EGR236	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>17</b>

\*Restricted electives (CIS219, EGR101, EGR118, MAT129): CIS219 is recommended for students unsure of where they will transfer.

**General Curriculum Information**

**English (by placement):** Satisfactory completion of the writing skills exam is a prerequisite for ENG101. Students who do not satisfactorily complete the writing exam must register for ENG091 and/or ENG100 prior to completing their six (6) hour English sequence.

**Mathematics (by placement):** Mathematics placement is based on the ACT, ASSET, or COMPASS placement test.

**Reading Proficiency Requirement:** All students will be required to demonstrate proficiency in reading through testing prior to earning a degree or certificate. Students who do not meet the required standard will be expected to begin remediation immediately.

**Electives:** Electives for this program should be selected with the transfer institution and program of interest in mind. For additional assistance with course selection, see the Transfer Coordinator in the Career & Transfer Center.

<b>530</b>	<b>Degree Requirements for Engineering Science</b>	<b>A.S.</b>
<b>2008-2009</b>		
<b>1</b>	<b>COMMUNICATIONS</b>	<b>9</b>
	ENG101 English Communications 1	3
	ENG102 English Communications 2 <b>or</b> ENG105 Writing in Humanities	3
	SPE103 <b>or</b> SPE108 <b>or</b> SPE109	3
<b>2</b>	<b>HISTORY</b>	<b>3</b>
	Select one: GEO101, HIS101, HIS102, HIS104, HIS105, HIS203, HIS204, HIS224, HIS225	
<b>3</b>	<b>SOCIAL SCIENCE ELECTIVE</b>	<b>3</b>
	Select one: ANT102, ECO101, ECO105, HUS101, POS101, POS103, POS105, PSY101, PSY102, PSY106, SOC101, SOC102, SOC103, SOC115, SOC240	
<b>4</b>	<b>MATH</b>	<b>12</b>
	MAT141 Calculus I	4
	MAT142 Calculus II	4
	MAT245 Calculus III	4
<b>5</b>	<b>NATURAL SCIENCE ELECTIVE</b>	<b>20</b>
	CHE101 General Chemistry 1	4
	CHE102 General Chemistry 2	4
	PHY131 General Physics 1	4
	PHY132 General Physics 2	4
	PHY133 General Physics 3	4
<b>6</b>	<b>PROGRAM</b>	<b>13</b>
	CIS125 Programming and Problem Solving	3
	EGR235 Engineering Mechanics 1: Statics	3
	EGR236 Engineering Mechanics 2: Dynamics	3
	MAT255 Differential Equations	4
<b>7</b>	<b>RESTRICTED ELECTIVES</b>	<b>6</b>
	Select two: CIS219, EGR101, EGR118, MAT129	
<b>8</b>	<b>HEALTH/PE/REC</b>	<b>2</b>
	HED***, PED***, REC***	
	<b>TOTAL</b>	<b>68</b>
	<b>Reading and Math Proficiency Required</b>	
	<b>Minimum QPI: 2.00</b>	

Revised: 5/24/00, 5/25/00, 4/20/01, 4/27/01, 8/17/01, 5/10/02, 9/10/02, 4/9/03, 3/18/04, 2/17/05, 3/10/06, 2/26/07