

## ENGINEERING MAJOR (B.A.)

Note: Sequence of courses may be altered with advisor's approval.

*For students starting Fall 2016 to present*

<u>FALL</u>			<u>SPRING</u>		
<u>Course No.</u>	<u>Description</u>	<u>Credits.</u>	<u>Course No.</u>	<u>Description</u>	<u>Credits.</u>
<b><u>Freshman</u></b>					
CORE 103	Fall CES	0	CORE 104	Spring CES	0
MATH 121	Calculus I	3	MATH 122	Calculus II	3
CHEM 121	Chemistry I/Lab	4	CHEM 122	Chemistry II/Lab	4
ENGL 103*	Writing for Disc	3	PHYS 121	Physics I/Lab	4
CPSC 121	Intro to Programming	4	RLST 105	Francis. Goals Today	3
ENGR 101	Intro to Engr.	1	CORE 113	First Year Seminar	3
ENGR192	Seminar	0	ENGR193	Seminar	0
<b>Total Credits</b>		<b>15</b>	<b>Total Credits</b>		<b>17</b>
<b><u>Sophomore</u></b>					
MATH 221	Calculus III	3	MATH 222	Calculus IV	3
PHYS 122	Physics II/Lab	4	ENGL 104	Intro to Literature	3
PHIL 205	Disc. Phil	3	LANG 102 or higher	Foreign Lang. Elec.	3
HIST 100/200	History Elective	3	ENGR 202	Engr. Dynamics	3
CORE 211	Wellness	0	CORE 212	Wellness	0
ENGR 201	Engr. Statics	3	GETM	Thematic minor	3
ENGR292	Seminar	0	ENGR 102	Intro to Engr.	1
			ENGR293	Seminar	0
<b>Total Credits</b>		<b>16</b>	<b>Total Credits</b>		<b>16</b>
<b><u>Junior</u></b>					
EXAM 301	Wr. Comp Exam	0	EXAM 401	Senior Comp	0
GETM	Thematic minor	3	FNAR XXX	Fine Arts. Elec.	3
EPPS*	Soc. Sci Elec.	3	EPPS*	Soc. Sci Elec.	3
GETM	Thematic minor	3	GETM	Thematic minor	3
CORE 407	Keystone Seminar	3	FREE ELEC.	Free Elec.	4
FREE Elective	Free Elective	3	MATH 306	Diff. Eq I	3
ENGR392	Seminar	1	ENGR393 Seminar		0
<b>Total Credits</b>		<b>16</b>	<b>Total Credits</b>		<b>16</b>

### **Additional Information:**

\* EPPS – Econ101, PLSC102/103, PSYC101 or SOC

GETM – General Education Thematic Minor

30 credits major (24 at second institution), 35 credits collateral; 45 additional core credits; 16 credits free elective (up to 8 at second institution); 128 total credits

Students must complete one year in engineering at an ABET-accredited engineering school, including at least 24 credits in courses appropriate for an engineering program with a minimum Q.P.A. of 2.0 and a total of 128 credits between the two schools.

Depending upon the branch of engineering chosen for study, one or more additional classes may be required for admission to an engineering school.

Pre-engineering students must maintain a 3.0 overall quality point average and obtain a faculty recommendation for transfer to Pennsylvania State University; some branches of engineering may require an even higher QPA – consult with Dr. Skoner for details.

Students transferring to the University of Pittsburgh or Clarkson University must have an overall 2.5 quality point average in those classes they intend to transfer.

At all schools, students may transfer no classes in which their grades were below “C”. Transfer requirements for other engineering schools vary and will be addressed on an individual basis.