Engineering

(AES.ENGR) Associate in Engineering Science Degree

You might also like:

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Transfer Ready
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The Engineering transfer program has a heavy emphasis on math and science. It is designed to provide a solid basis for work at the junior and senior levels in the various disciplines of engineering. The University of Illinois and Southern Illinois University – Carbondale or Edwardsville require specific minimum GPAs for entry into the various colleges of engineering. Consult a counselor or academic advisor before registering. Four-year college requirements vary from college to college.

This is a sample list of requirements for this major. Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores. Only courses with a course number of 100 or higher meet graduation requirements for the AES degree.

FIRST YEAR

First Semester		Hours
☐ ENG 120	Composition I *	3
☐ ECO 231	Principles of Economics I	3
☐ MAT 241	Analytic Geometry/Calculus I *	5
☐ TEC 103	Engineering Graphics	3
☐ CHM 150	General Chemistry I *	4
	SEMESTER TOTALS	**18**

Second Semester		
☐ ENG 121	Composition II *	3
☐ ECO 232	Principles of Economics II *	3
☐ MAT 242	Analytic Geometry/Calculus II *	4
☐ PHY 140	University Physics I * †††	4
☐ CHM 151	General Chemistry II *	4
	SEMESTER TOTALS	**18**

SECOND YEAR

First Semester		Hours
☐ PHY 141	University Physics II * †	4
☐ PHY 239	Mechanics I * †	3
☐ MAT 151	C Programming/ Engineering Applications * †	3
☐ MAT 250	Matrix Algebra * † *or*	
MAT 255	Linear Algebra * †	2 – 3
☐	Humanities (IAI H) [1]	3
	SEMESTER TOTALS	**15 – 16**

Second Semester		
☐ PHY 142	University Physics III * †††	4
☐ MAT 243	Analytic Geometry/Calculus III * †††	4
☐ MAT 245	Differential Equations * †††	3
☐ PHY 240	Mechanics II * †††	3
☐	Humanities (IAI H) [1]	3
	SEMESTER TOTALS	**17**

* There are prerequisites, course requisites or minimum placement test scores for this course

† Course only offered fall semester

††† Course only offered spring semester

[1] HIS 153 – History and Culture of the Third World and either HIS 250 – Western Civilization to 1660 or HIS 252 – Western Civilization from 1660–present are strongly recommended

See page 134 for specific general education requirements and course listings.

NOTES:

Call Counseling Services: 217-234-5232
Email: counsel@lakeland.cc.il.us

Faculty Contact: Tonia Timlin
Email: ttimlin@lakeland.cc.il.us
Phone: 217-234-5309