

## Southern Illinois University - Carbondale (SIUC) Engineering (2016-2017 catalog)

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Transfer guides are produced as a service to MCC students. Every effort is made to maintain up-to-date and accurate information; however, this information is subject to change. Such changes take precedence over the information on this guide. Students should work with an MCC advisor and the four-year transfer school. Responsibility for complying with all applicable requirements ultimately rests with the student.

### Transfer Options

- **Illinois Articulation Initiative General Education Core Curriculum (IAI GECC)** - Completing the IAI GECC prior to transferring is not recommended. Instead, students should focus on completing prerequisite math and science courses and courses that fulfill SIUC University Core Curriculum requirements. Course recommendations on this guide provide guidance for SIUC's BS degree requirements that students can complete while at MCC.
- **Associate in Engineering Science (AES) Degree** - Course recommendations on the following pages of this guide apply to MCC's AES degree and to specific engineering majors at SIUC. Engineering baccalaureate programs are highly structured and require extensive, sequential math and science courses at freshman and sophomore levels; therefore some general education courses are postponed until junior and senior years. The AES degree allows students to take courses in this pattern. (The AES degree does not include the complete IAI GECC requirements.)

### Admission Information

- **Application and admission** - For details, please refer to this website: <http://admissions.siu.edu/index.html> Students are strongly advised to study the SIUC catalog and to consult with a counselor for specific admission and course requirements within colleges and majors of their choice.
- **Admission criteria** –
  - **Fewer than 26 completed semester hours of transferable credit at time of application** – Students are eligible for admission consideration if admission requirements of a beginning freshman as well as a transfer student are met.
  - **26 or more completed semesters hours of transferable credit at time of application** – Students are eligible for admission consideration with an overall 2.0/4.0 GPA as calculated by SIUC standards and good standing at last college attended.
- **Application deadline** - SIUC uses a rolling admission, so there is no set application deadline. Students may begin in fall, spring, or summer. Transfer students can apply up to 1 year in advance of the semester in which they intend to enroll at SIUC.
- **GPA calculation for admission** – SIUC recalculates GPA for admission purposes, using coursework from all previous colleges attended. Developmental coursework is not included. Repeated coursework is included in calculating the student's GPA.

### Additional Information

- **Maximum hours from a community college** – Effective Summer 2013, a minimum number of 42 senior institution hours (all of which must be at the 300/400 level) is required to graduate from a four-year institution. This means a maximum of 78 hours from a community college can be applied toward the SIUC baccalaureate degree.
- **Catalog rule** - A transfer student from an Illinois public community college may choose to meet graduation requirements specified in the SIUC catalog in effect at the time the student entered the community college. The requirements from that SIUC catalog will extend for seven years.

- **Grade requirement** – With the exception of ENG151 and 152, SIUC will accept a D grade for general education requirements. All major related courses require a minimum C grade.
- **Dual Admission Program** – The program allows baccalaureate oriented freshman students at community colleges to benefit from pre-advisement through SIUC for a chosen major at SIUC. It addresses specific departmental requirements that a student may not fulfill simply by completing their associate degree at their community college. See an MCC advisor for more information.

**Course recommendations for AES degree completion and for specific engineering majors at SIUC**

<b>Associate in Engineering Science Degree Requirements</b>	
<b>General Core and Support Courses</b> (Refer to MCC's catalog for approved IAI courses.)	
<b>Communications</b> (6 credits) _____ ENG151 Composition I, C or better (3 cr) _____ ENG152 Composition II, C or better (3 cr)	<b>Mathematics</b> (17 credits) _____ MAT175 Calculus w/Analytic Geo I (5 cr) _____ MAT245 Calculus w/Analytic Geo II (5 cr) _____ MAT255 Calculus w/Analytic Geo III (4 cr) _____ MAT260 Differential Equations (3 cr)
<b>Humanities &amp; Fine Arts</b> (3 credits) _____ IAI Humanities or Fine Arts course (Note: Computer & Electrical Engineering – select PHI155 or PHI251)	<b>Science</b> (13 credits) _____ CHM165 General Chemistry I (5 cr) _____ PHY291 Principles of Physics I (4 cr) _____ PHY292 Principles of Physics II (4 cr)
<b>Social &amp; Behavioral Sciences</b> (3 credits) _____ ECO 251 Microeconomics	<b>Computer Science</b> (4 credits) _____ CSC121 Comp Science I (4 cr)
<b>Non-Western Cultures or Minority Cultures within the United States</b> Select 1 course from following (3 credits): _____ ENG275, PHI160, SOC260, SOC261 (Note: Computer & Electrical Engineering – select SOC260 or SOC261)	
<b>Total Credits for General Core and Support Courses</b> <span style="float: right;"><b>49 credits</b></span>	
<b>Engineering Specialty Courses</b> (Sequence courses must be completed at MCC for full transfer credit)	<b>Total AES Credits</b>
<b>Civil Engineering</b> _____ EGR251 Statics (3) _____ CHM166 General Chemistry II (5) _____ EGR252 Dynamics (3) _____ PHY293 Principles of Physics III (4)	<b>64</b>
<b>Computer Engineering</b> _____ CSC122 Computer Science II (4 cr) _____ PHY293 Principles of Physics III (4) _____ EGR 260 Electric Circuits Analysis (4)	<b>61</b>
<b>Electrical Engineering</b> _____ EGR 260 Electric Circuits Analysis (4) _____ PHY293 Principles of Physics III (4) _____ CHM166 General Chemistry II (5)	<b>62</b>
<b>Mechanical Engineering</b> _____ EGR151 Engineering Graphics (4) _____ CHM166 General Chemistry II (5) _____ EGR251 Statics (3) _____ PHY293 Principles of Physics III (4) _____ EGR252 Dynamics (3)	<b>68</b>
<b>Mining Engineering</b> _____ EGR151 Engineering Graphics (4) _____ EGR260 Electric Circuit Analysis (4) _____ EGR251 Statics (3) _____ PHY293 Principles of Physics III (4) _____ EGR252 Dynamics (3)	<b>67</b>

**SIUC will accept up to 78 credits from a community college. The following are SIUC requirements that you may take at MCC:**

- IAI Humanities course (Computer & Electrical Engineering – select PHI155 or PHI251; both courses are required)
- IAI Fine Arts course
- IAI Social & Behavioral Science course (Computer & Electrical Engineering – select SOC260 or SOC261 - If you take SOC260 or 261 for your AES Non-Western requirement, this SIUC Social Science is satisfied.)
- SPE151 - Introduction to Speech
- EGR260 - Electrical Circuits Analysis (Mechanical Engineering)