

2021 – 2022

IVCC Transfer Guide for Engineering Majors

For information on Colleges or Universities not listed here, see a counselor. Several private colleges have evaluated IVCC course work for transfer, this includes DePaul, Bradley, Loyola, Monmouth, North Central and Eureka.

| UNIVERSITY | OPTIONS AVAILABLE WITHIN DEPARTMENT | MINIMUM GPA REQUIRED | MAJOR COURSES REQUIRED FOR TRANSFER |
|--|---|---|---|
| EASTERN ILLINOIS UNIVERSITY | <ul style="list-style-type: none"> • Electrical | | MTH 2001, 2002, & 2007, CHM 1006, PHY 1001 & 2001, CSI 1011. CSI 2011 is major elective. *World Language equivalent to 2 years HS (“C” or better) or 2 semesters college in a single language. https://www.eiu.edu/electric/ 2/21 |
| NORTHERN ILLINOIS UNIVERSITY | <ul style="list-style-type: none"> • Industrial & Systems Management • Health Systems Manufacturing • Mechanical • Computing & Simulation • Sustainable Energy • Robotics & Controls • Electrical • Biomedical • Mechatronics • Technology (see to right) | 2.0. BS track 90 hours 3.0 required to apply to BS/MS or the BS/JD tracks | *2.3 GPA in the following: CHM 1006, ENG 1001, 1002, MTH 2001, 2002, 2003, 2007, PHY 1001, 2001 & 2002, CSI 1011 (appeal to use as CSCI240). Complete a min of IAI or NIU Plus Gen Ed package. Industrial & Systems: TAM 2001, PSY 1000, ELT 1204, EGR 1000, ECN2002 <i>or</i> 2003. ACT1010 may be used as an elective. Mechanical & Mechatronics: TAM 2001, EGR 1000 Electrical: TAM 2001, ELT 2204 Biomedical: BIO1001 or 1003, BIO1007 & 1008; TAM2001 BS/MS track is 5 years: 90 credits and 3.0 GPA to apply Technology: Areas include Electrical, Manufacturing, Industrial Mgmt & Tech, Energy & Environ Tech and Applied Manufacturing. See the Industrial/Engineer Tech guide sheet. The Applied Manufacturing option guides are attached to the AAS degrees and is a 90+30 option *Human Diversity course required for this major, choose from NIU Plus guide. http://www.niu.edu/CEET/ 3/21 |
| SOUTHERN ILLINOIS UNIVERSITY | <u>B.S. - College of Engineering</u> <ul style="list-style-type: none"> • Civil (Environmental specialization available) • Computer Engineering • Computer/Cybersecurity • Electrical (Biomedical and Power/Energy specializations) • Mechanical & Energy • Mining | 2.0 “C” or better in Math, Science, English courses | Civil/Environmental: CHM 1006, 1007; ECN 2002; ENG 1001, 1002; MTH 2001, 2002, 2003, 2007; PHY 1001, 2001, 2002; SPH 1001; TAM 2001. Computer: ENG 1001, 1002; MTH 2001, 2002, 2003, 2007; PHY 1001, 2001, 2002; SPH 1001. Computer/Cybersecurity: ENG 1001, 1002; MTH 2001, 2002, 2003, 2007; PHY 1001, 2001, 2002; SPH 1001. Electrical: ENG 1001, 1002; MTH 2001, 2002, 2003, 2007; PHY 1001, 2001, 2002; SPH 1001. Mechanical & Energy: CHM 1006, 1007; ENG 1001, 1002; MTH 2001, 2002, 2003, 2007; PHY 1001, 2001, 2002; SPH 1001; TAM 2001. Mining: CHM 1006; GEL 1007 or 1008; MTH 2001, 2002, 2003, 2007; PHY 1001; TAM 2001. A.S. or IAI recommended prior to transfer. MTH 2002 and MTH 2007 not required prior to transfer for most majors, <i>but is required prior to transfer for Mechanical Engineering.</i> https://catalog.siu.edu/colleges/engineering.php 2/21 |
| UNIVERSITY OF ILLINOIS CHICAGO | <u>College of Engineering</u> <ul style="list-style-type: none"> • Bioengineering • Chemical • Civil & Materials • Computer Science • Electrical and Computer Engineering • Engineering Management • Mechanical and Industrial | 2.5 minimum GPA for fullest consideration. Min. 24 semester hours at the time of application, and 36 at the time of enrollment. | Courses required at time of enrollment: CHM 1006; ENG 1001, 1002; MTH 2001, 2002, 2003, 2007; PHY 1001, 2001. Bioengineering: BIO 1003; CHM 1007, CSI 1011 Chemical Engineering: CHM 1007, 2002, 2003; CSI 1011 Computer Science: BIO 1003; CHM 1007 or GEL 1008 or GEL 1009 Electrical & Computer Engineering: CSI 1011; PHY 2002 Mechanical and Industrial Engineering: CSI 1011; PHY 2002; TAM 2001 Students should take one course from each of the following UIC General Education categories: Analyzing The Natural World; Understanding The Creative Arts; Understanding The Individual and Society; Understanding The Past; Exploring World Cultures; and Understanding U.S. Society. http://engineering.uic.edu/ https://tag.uic.edu/programs 3/20 |
| UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN | <u>Majors (Admit GPA)</u> <ul style="list-style-type: none"> • Aerospace • Agricultural and Biological • Chemical Engineering • Civil • Computer Engineering • Computer Science • Electrical • Engineering Mechanics • Engineering Physics • Industrial • Materials Science • Mechanical • Nuclear, Plasma and Radiological • Systems Engineering & Design (General) Average admission GPA varies by specific sub-major, but 3.7 is minimum to be competitive. | Minimum 3.0 for both Technical GPA (Math, Chemistry, & Physics) and Cumulative GPA for consideration Minimum 3.7 in both Technical and Cumulative GPA is required for Mechanical Engineering, and Computer Science Course repeat is recommended for any technical course with grade of C or less. | The application process allows for list of first and second choice major, however, Aerospace Engineering, Computer Engineering, Computer Science, Electrical Engineering, and Mechanical Engineering are currently available as first choice majors only. There will no longer be Spring Admission to the College of Engineering after Spring 2019. Required for Sophomore-level admission: CHM 1006; ENG 1001, 1002; MTH 2001, 2002; PHY 1001. CHM 1007 is also required for Agricultural/Biological, Civil, Engineering Mechanics, and Materials Science. Recommended prior to sophomore transfer: ECN 2002 or 2003. Required for Junior-level admission (all programs): MTH 2003; PHY 2001, 2002. TAM 2001 required by: Aerospace; Agriculture/Biological; Civil; Engineering Mechanics; Industrial; Mechanical; Nuclear/Plasma/Radiological; Systems Engineering & Design. MTH 2007 required for all programs except Computer Science and Engineering Mechanics CSI 1011 required Computer Science, Electrical Engineering, and Engineering Mechanics. It is recommended for all other programs. CSI 2011 is strongly recommended for Computer Engineering, Computer Science, and Electrical Engineering. Recommended Prior to Transfer (all majors): ENG 1205 (or 2000), Language Other than English of 3 years high school or 3 semesters college, and other Campus-Wide gen. eds. Please follow the links in the following website for more program-specific information: **Discrete Mathematics is a course that IVCC does not offer , but is required for admission to Computer Engineering and Electrical Engineering . It is highly recommended that students take Discrete Mathematics at another community college prior to transfer. Illinois community colleges offering an equivalent course include: College of DuPage, Oakton, Joliet Junior College, Wilbur Wright, Harper College, Illinois Central College, and Moraine Valley. https://admissions.illinois.edu/Content/docs/Handbook_ENG.pdf 2/21 |
| WESTERN ILLINOIS UNIVERSITY QUAD CITY CAMPUS ONLY | <ul style="list-style-type: none"> • BS in Engineering General Industrial • BS in Electrical • BS in Civil • BS in Mechanical Design Manufacturing Robotics | 2.0 | All programs: CHM 1006; EGR 1000; MTH 2001, 2002, 2003, 2007; PHY 1001, 2001, 2002; (C or better in all) Program is housed at the Quad Cities campus. First two years of the program may be completed at Macomb or any Community College. ECN2003 suggested Civil: 3 credits from BIO1004, 1009, GEG1002, GEG1003# or GEG1004# Engineering (Industrial) & Mechanical (Manufacturing): MET2201 #Students must take one Global Issues course <i>or</i> Foreign Lang of 3yrs in HS <i>or</i> 3 coll. sem <i>and</i> one Multicultural Studies course. Courses may double dip Gen Ed/Global or Multi/Global but NOT Gen Ed/Multi, some majors at WIU incorporate the Global Issues course in the lower/ upper level curriculum. Lower level courses are marked on the WIU Equiv. guide. http://www.wiu.edu/academics/majors/business_and_technology/engineering.php http://www.wiu.edu/academics/majors/business_and_technology/mechanical-engineering.php 3/20 |