Engineering Transfer

Program Overview

Engineering, Math
and Physical Sciences division
Room T102, (847) 543-2044
www.clcillinois.edu/programs/egr

Engineering
(Associate in Engineering Science)
Plan 12AB

The engineering transfer curriculum at CLC is a two-year program that will prepare you for continued engineering study at a four-year college or university. The program parallels the first two years of an engineering program at most universities accredited by the Accrediting Board for Engineering and Technology (ABET).

First Semester .......................... 17
MTH 145 Calculus and Analytic
Geometry I. ............................. 5
CHM 121 General Chemistry I. ....... 5
EGR 120 Introduction to Engineering . 1
EGR 121 Engineering Graphics# ....... 3
ENG 121 English Composition I. ....... 3

Second Semester .......................... 15
MTH 146 Calculus and Analytic
Geometry II ............................. 4
ENG 122 English Composition II or
ENG 126 Advanced Composition:
Scientific and Technical
Communications. ....................... 3
PHY 123 Physics for Science and
Engineering I. ......................... 5
Humanities/Fine Arts or
Social Science Elective* ......... 3

Third Semester .......................... 15
PHY 124 Physics for Science and
Engineering II ........................... 5
EGR 125 Engineering Statics# or
Technical Elective ..................... 3
MTH 246 Calculus and Analytical
Geometry III ............................ 4
Humanities/Fine Arts or
Social Science Elective* ......... 3

Fourth Semester ........................ 15-16
MCS 140 Computer Programming I .... 3
MTH 227 Differential Equations ......... 3
EGR 225 Engineering Dynamics# or
Technical Elective ..................... 3
EGR 260 Introduction to Circuit
Analysis# or
Technical Elective ..................... 3
Humanities/Fine Arts or
Social Science Elective* ......... 3

Optional Summer Recommendations
(based on the institution you intend
to transfer to)
CHM 123 General Chemistry II ......... 5
EGR 222 Engineering Mechanics
of Materials# .......................... 3
PHY 221 Physics for Science
and Engineering III ................. 4

# Select a minimum of 12 credit hours from the
technical elective courses. Courses may include
those recommended in the semester schedule above
or substitute in a different course from the list below.

Technical Electives for Specific
Engineering Majors below
EGR 120 Introduction to Engineering . 1
EGR 121 Engineering Graphics ......... 3
EGR 125 Engineering Statics ......... 3
EGR 225 Engineering Dynamics ....... 3
EGR 260 Introduction
to Circuit Analysis .................... 4
EGR 222 Engineering Mech
of Materials ............................ 3
CHM 123 General Chemistry II ....... 5
CHM 222 Organic Chemistry I ...... 5
MCS 142 Computer Science II ....... 3
MTH 225 Introduction
to Linear Algebra ..................... 3
MTH 244 Discrete Mathematics ....... 3
PHY 221 Physics for Science
and Engineering III ................. 4
EET 223 Introduction to
Digital Electronics .................... 4

* Select courses from three different disciplines (i.e. different prefixes). At least one course must be
selected from the Social and Behavioral Sciences
section and one course from either the Humanities
or Fine Arts section. See page 58 of the 2015-16
catalog for specific course list. Include one course
in International/Multicultural Education. There will
be a + following the course number. This course can
fulfill both the I/M requirement and a Social Science,
Humanities, or Fine Arts requirement.

These recommendations align
with the IAI Engineering
Panel recommendations. Students
are strongly recommended to choose
courses in consultation with an advisor
to meet 4-year Engineering school
transfer requirements.

General or Undecided:
EGR 120, 121, 125, 225, 260

BIO Medical:
EGR 120, 121, CHM 123, EGR 260

Chemical Engineering:
EGR 120, 121, CHM 123, 222

Civil Engineering:
EGR 120, 121, 125, 222, 225

Electrical/Computer Engineering:
EET 223, EGR 120, 260, MTH 225, 244

Industrial Engineering:
EGR 120, 121, 125, 222, 226

Mechanical Engineering:
EGR 120, 121, 125, 222, 226

Courses Offered in Selected Semesters Only

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<th>Course</th>
<th>Fall</th>
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<td>EGR 260</td>
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Night classes begin no earlier than
4 p.m. Above schedule assumes sufficient
enrollment. For more information about this
course of study, students should contact
the division office.

Engineering Majors at Most Universities:

- Electrical/Computer Engineering
- Mechanical Engineering
- Civil Engineering
- Chemical Engineering
- BIO Medical
- Industrial Engineering

Engineering Transfer at CLC:

- First Semester: MTH 145, CHM 121, EGR 120, EGR 121, ENG 121
- Second Semester: MTH 146, ENG 122, ENG 126, PHY 123
- Third Semester: PHY 124, EGR 125, MTH 246
- Fourth Semester: MCS 140, MTH 227, EGR 225, EGR 260

Optional Summer Recommendations:

- CHM 123, EGR 222, PHY 221

Program Overview:

- Engineering, Math, and Physical Sciences division
- Room T102, (847) 543-2044
- www.clcillinois.edu/programs/egr

Engineering Transfer Curriculum:

- A two-year program at CLC
- Parallels the first two years of an engineering program at most universities
- Accredited by the Accrediting Board for Engineering and Technology (ABET)

Course Offerings:

- Courses offered in selected semesters
- Fall, Spring, and Summer offerings

Additional Information:

- General or Undecided: EGR 120, 121, 125, 225, 260
- BIO Medical: EGR 120, 121, CHM 123, EGR 260
- Chemical Engineering: EGR 120, 121, CHM 123, 222
- Civil Engineering: EGR 120, 121, 125, 222, 225
- Electrical/Computer Engineering: EET 223, EGR 120, 260, MTH 225, 244
- Industrial Engineering: EGR 120, 121, 125, 222, 226
- Mechanical Engineering: EGR 120, 121, 125, 222, 226

Select courses from three different disciplines (i.e. different prefixes).

- Social and Behavioral Sciences section
- Humanities or Fine Arts section

Courses in International/Multicultural Education are recommended.

- At least one course must be selected from each category.

Optional Summer Recommendations:

- CHM 123, EGR 222, PHY 221

- Select a minimum of 12 credit hours from technical electives.

Engineering Majors:

- Electrical/Computer Engineering
- Mechanical Engineering
- Civil Engineering
- Chemical Engineering
- BIO Medical
- Industrial Engineering

Courses Offered:

- Fall, Spring, and Summer offerings

- Minimum of 12 credit hours from technical electives

- Select courses in consultation with an advisor.

- At least one course must be selected from Social and Behavioral Sciences.

- Humanities or Fine Arts section

- Social and Behavioral Sciences section

- International/Multicultural Education

- For more information, contact the division office.
If you like figuring out how things work, then engineering could be a good field for you.

**CLC’s Engineering Club**
The CLC Engineering club is active, with more than 15 students who meet for social events, professional speakers, tours, networking and more. The club was named CLC club of the year in 2008.

**Scholarships**
Scholarships are available for full time Engineering, Computer Science or Electrical Engineering Technology students who are eligible for federal financial aid and qualify academically. For more information, go to [www.clcillinois.edu/nsf](http://www.clcillinois.edu/nsf).

**Engineering Pathways**
CLC has a partnership with the University of Illinois, Urbana/Champaign. Known as Engineering Pathways, the program offers qualified students guaranteed admission to UIUC’s College of Engineering. For details, visit [www.clcillinois.edu/programs/egr/options/engineering-pathways](http://www.clcillinois.edu/programs/egr/options/engineering-pathways).

**Job Market**
For the latest information on salaries and job outlook, visit [www.mynextmove.org](http://www.mynextmove.org) or the Bureau of Labor Statistics online at [www.bls.gov](http://www.bls.gov).

**Employers**
Engineers work in technical or managerial roles for a variety of types of employers, including companies that design, manufacture or build, research, or sell engineering related products.

**Transfer Schools**
All CLC courses transfer to the major engineering schools in Illinois and surrounding states. You can take up to 60 hours and transfer them to any engineering school, including:
- University of Illinois–Chicago
- University of Illinois–Urbana Champaign
- Northern Illinois University
- Southern Illinois University
- Illinois Institute of Technology
- Bradley University
- Milwaukee School of Engineering
- Marquette University

**For Gainful Employment**
Information on CLC programs, visit [www.clcillinois.edu/gainfulemployment](http://www.clcillinois.edu/gainfulemployment).

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**Student Experience**
“Taking courses at CLC before transferring to the University of Illinois shortened my overall college time from four years to only three years. The level of personal attention I received from the instructors at CLC was not present at the university level. My experience at CLC prepared me well for upper-level classes at the University.”  
— Aras Buntinas  
Former CLC student, graduate of University of Illinois (B.S.)

“The CLC engineering program is an excellent beginning to a career in engineering. Courses are taught by knowledgeable instructors who are interested in helping students succeed. The core curriculum easily transferred, and I was well prepared to advance in my undergraduate and graduate studies.”  
— John Doles  
Former CLC student, graduate of IIT (B.S.) and University of Illinois (M.S.)