

Engineering Transfer Tracks

Courses offered within the recommended engineering transfer tracks provide access and transfer to bachelor's degree programs in engineering. Students may choose a program from among five areas that provides a two-year sequence typical of university-level engineering requirements:

- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Mechanical Engineering

Students following a recommended engineering transfer track may earn the Associate in Science degree upon completion of 60 credit hours meeting Associate in Science degree requirements. Additional hours recommended for engineering transfer tracks are 10 - 19 semester hours, depending on the track. Students completing the recommended engineering transfer track do not earn an additional certificate, diploma or degree.

Students planning to pursue a bachelor's degree in engineering are strongly urged to utilize Greenville Technical College's academic advising services. The transfer process for this track is very specific and leaves little opportunity for error in choosing classes. It is very important that students discuss curriculum and transfer requirements with their assigned academic advisor and with a transfer advisor at the four-year institution of their choice. It is most beneficial to the student if these discussions begin as soon as the choice to major in engineering at a four-year institution has been made. Engineering Technology faculty and academic advising staff will be an excellent resource for students considering this academic option.

Greenville Technical College has an Engineering Transfer Articulation Agreement with Clemson University. Students planning to pursue a bachelor's degree in engineering must complete an "Intent to Participate" form before completing thirty (30) credit hours. Students must contact their academic advisor to complete the form.

High school preparation for engineering should include a strong emphasis on mathematics, science and basic English skills. Students not meeting the requirements for entry into MAT 140 and ENG 101 will have preparatory work to complete and may need more than five semesters to finish the engineering transfer course sequence.

Chemical Engineering Track

Related Areas:

Electrical Engineering, Environmental Engineering, Mechanical Engineering, Electrical Engineering Technology, Mechanical Engineering Technology

- This program is for students who want to receive their engineering education at an institute that is closely affiliated with hometown industries. It also provides a personalized learning environment to ensure greater success in the future.

(*See Note: Developmental Studies, COL 103 & EGR 102)

First Semester - Fall

CHM	110	College Chemistry I*	4.0
EGR	269	Engineering Disciplines and Skills	2.0
ENG	101	English Composition I*	3.0
MAT	140	Analytical Geometry & Calculus I*	4.0
		Humanities/Social Science Elective**	3.0

Second Semester - Spring

CHM	111	College Chemistry II*	4.0
EGR	270	Introduction to Engineering	3.0
MAT	141	Analytical Geometry & Calculus II*	4.0
PHY	221	University Physics I*	4.0

Third Semester - Summer

ENG	102	English Composition II*	3.0
EGR	275	Introduction to Engineering/Computer Graphics	3.0
PHY	222	University Physics II*	4.0

Fourth Semester - Fall

CHM	211	Organic Chemistry I*	4.0
ECE	221	Introduction to Electrical Engineering I	3.0
MAT	240	Analytical Geometry & Calculus III*	4.0
SPC	205	Public Speaking*+	3.0
		Humanities/Social Science Elective**	3.0

Fifth Semester - Spring

CHM	212	Organic Chemistry II*	4.0
MAT	242	Differential Equations	4.0
		Two Humanities/Social Science Electives**	3.0
			3.0

* General education course

+ Clemson no longer requires public speaking for Chemical Engineering majors

NOTE: The course schedule listed above is designed for students who begin the program with ENG 101 and MAT 140 based on the placement test. Students that are taking pre-requisite courses for MAT 140 should also take the following courses: COL 103 for students taking MAT 100 and/or EGR 102 for students who are taking MAT 105.

NOTE: See General Education course listing in this catalog for courses marked that are acceptable to transfer as Humanities or Social Science electives to Clemson. Note that engineering majors at Clemson require at least one of the Humanities/Social Science electives to be a literature course; one Humanities course that meets Cultural Awareness understanding; and one Social Science course that meets Science and Technology in Society awareness. Since requirements can change at other institutions at any time, it is advised for students to get in touch with the department head of the program you wish to transfer into to ensure you are meeting the correct requirements for entrance into that program.

NOTE: Please contact program advisor for recommended evening schedules.

Civil Engineering Track

Related Areas:

Mechanical Engineering, Environmental Engineering, Architecture, Surveying, Geomatics Technology, Construction Engineering Technology, Mechanical Engineering Technology, Architecture Engineering Technology, Construction Science Management

- This program is for students who want to receive their engineering education at an institute that is closely affiliated with hometown industries. It also provides a personalized learning environment to ensure greater success in the future.

(**See Note: Developmental Studies, COL 103, and EGR 102)

First Semester - Fall

CHM	110	College Chemistry I*	4.0
ENG	101	English Composition I*	3.0
EGR	269	Engineering Disciplines and Skills	2.0
		Humanities/Social Science Elective*/**	3.0
MAT	140	Analytical Geometry & Calculus I*	4.0

Second Semester - Spring

CHM	111	College Chemistry II*+	4.0
EGR	270	Introduction to Engineering	3.0
MAT	141	Analytical Geometry & Calculus II*	4.0
PHY	221	University Physics I*	4.0

Third Semester - Summer

ENG	102	English Composition II*	3.0
PHY	222	University Physics II*	4.0
EGR	210	Introduction to Engineering CAD (AutoCAD)	3.0

Fourth Semester - Fall

EGR	260	Engineering Statics	3.0
MAT	240	Analytical Geometry & Calculus III*	4.0
EGR	285	Engineering Surveying I***	3.0
EGR	295	Engineering Surveying I Lab***	1.0
		Humanities/Social Science Elective*/**	3.0

Fifth Semester - Spring

EGR	262	Engineering Dynamics	3.0
MAT	242	Differential Equations	4.0
SPC	205	Public Speaking*	3.0
		Humanities Elective*/**	3.0
		Social Science Elective*/**	3.0

* General education course

+ Clemson no longer accepts CHM 111 for Civil Engineering majors.

NOTE: The course schedule listed above is designed for students who begin the program with ENG 101 and MAT 140 based on the placement test. Students that are taking pre-requisite courses for MAT 140 should also take the following courses: COL 103 for students taking MAT 100 and/or EGR 102 for students who are taking MAT 105.

NOTE: See General Education course listing in this catalog for courses marked that are acceptable to transfer as Humanities or Social Science electives to Clemson. Note that engineering majors at Clemson require at least one of the Humanities/Social Science electives to be a literature course; one Humanities course that meets Cultural Awareness understanding; and one Social Science course that meets Science and Technology in Society awareness. Since requirements can change at other institutions at any time, it is well advised for students to get in touch with the department head of the program you wish to transfer into to ensure you are meeting the correct requirements for entrance into that program.

*** Required by the Citadel, may or may not be required or accepted in transfer at other four-year engineering colleges.

NOTE: Please contact program advisor for recommended evening schedules.

Computer Engineering Track

Related Areas:

Electrical Engineering, Electronics Engineering Technology, Computer Programming Technology

- This program is for students who want to receive their engineering education at an institute which is closely affiliated with hometown industries. It also provides a personalized learning environment to ensure greater success in the future.

(*See Note: Developmental Studies, COL 103, and EGR 102)

First Semester - Fall

CHM	110	College Chemistry I*	4.0
EGR	269	Engineering Disciplines and Skills	2.0
ENG	101	English Composition I*	3.0
MAT	140	Analytical Geometry & Calculus I*	4.0
		Humanities/Social Science Elective**	3.0

Second Semester - Spring

ECE	211	Introduction to Computer Engineering I	3.0
EGR	270	Introduction to Engineering	3.0
ENG	102	English Composition II*	3.0
MAT	141	Analytical Geometry & Calculus II*	4.0
PHY	221	University Physics I*	4.0

Third Semester - Summer

ECE	212	Introduction to Computer Engineering II	3.0
PHY	222	University Physics II*	4.0
		Elective***	3.0

Fourth Semester - Fall

CPT	234	C Programming I	3.0
ECE	221	Introduction to Electrical Engineering I	3.0
MAT	240	Analytical Geometry & Calculus III	4.0
SPC	205	Public Speaking*	3.0
		Social Science Elective**	3.0

Fifth Semester - Spring

ECE	205	Electrical & Computer Lab I	3.0
ECE	222	Introduction to Electrical Engineering II	3.0
MAT	242	Differential Equations*	4.0
		Humanities Elective**	3.0
		Social Science Elective**	3.0

* General education course

NOTE: The course schedule listed above is designed for students who begin the program with ENG 101 and MAT 140 based on the placement test. Students that are taking pre-requisite courses for MAT 140 should also take the following courses: COL 103 for students taking MAT 100 and/or EGR 102 for students who are taking MAT 105.

NOTE: See General Education course listing in this catalog for courses marked that are acceptable to transfer as Humanities or Social Science electives to Clemson. Note that engineering majors at Clemson require at least one of the Humanities/Social Science electives to be a literature course; one Humanities course that meets Cultural Awareness understanding; and one Social Science course that meets Science and Technology in Society awareness. Since requirements can change at other institutions at any time, it is well advised for students to get in touch with the department head of the program you wish to transfer into to ensure you are meeting the correct requirements for entrance into that program.

NOTE: Please contact your advisor for recommended evening schedules.

***See Page 132; "Other Transfer Hours" and contact your advisor.

Electrical Engineering Track

Related Areas:

Electrical/Electronics Engineering, Computer Engineering, Computer Integrated Manufacturing, Electro-Mechanical Engineering, Biomedical Engineering, Electrical Engineering Technology

- This program is for students who want to receive their engineering education at an institute which is closely affiliated with hometown industries. It also provides a personalized learning environment to ensure greater success in the future.

(**See Note: Developmental Studies, COL 103 & EGR 102)

First Semester - Fall

CHM	110	College Chemistry I*	4.0
EGR	269	Engineering Disciplines & Skills	2.0
ENG	101	English Composition I*	3.0
MAT	140	Analytical Geometry & Calculus I*	4.0
		Humanities/Social Science Elective**	3.0

Second Semester - Spring

ECE	211	Introduction to Computer Engineering I	3.0
EGR	270	Introduction to Engineering	3.0
ENG	102	English Composition II*	3.0
MAT	141	Analytical Geometry & Calculus II*	4.0
PHY	221	University Physics I*	4.0

Third Semester - Summer

ECE	212	Introduction to Computer Engineering II	3.0
PHY	222	University Physics II*	4.0
SPC	205	Public Speaking*	3.0

Fourth Semester - Fall

ECE	221	Introduction to Electrical Engineering I	3.0
CPT	234	C Programming I	3.0
CHM	111	College Chemistry II*	4.0
MAT	240	Analytical Geometry & Calculus III*	4.0
		Humanities/Social Science Elective**	3.0

Fifth Semester - Spring

ECE	205	Electrical & Computer Lab I	3.0
ECE	222	Introduction to Electrical Engineering II	3.0
MAT	242	Differential Equations*	4.0
		Humanities Elective**	3.0
		Social Science Elective**	3.0

* General education course

NOTE: The course schedule listed above is designed for students who begin the program with ENG 101 and MAT 140 based on the placement test. Students that are taking pre-requisite courses for MAT 140 should also take the following courses: COL 103 for students taking MAT 100 and/or EGR 102 for students who are taking MAT 105.

NOTE: See General Education course listing in this catalog for courses marked that are acceptable to transfer as Humanities or Social Science electives to Clemson. Note that engineering majors at Clemson require at least one of the Humanities/Social Science electives to be a literature course; one Humanities course that meets Cultural Awareness understanding; and one Social Science course that meets Science and Technology in Society awareness. Since requirements can change at other institutions at any time, it is well advised for students to get in touch with the department head of the program you wish to transfer into to ensure you are meeting the correct requirements for entrance into that program.

NOTE: Please contact program advisor for recommended evening schedules.

Mechanical Engineering Track

Related Areas:

Automotive Engineering, Civil Engineering, Electro-Mechanical Engineering, Mechanical Engineering Technology, Robotics, Architecture, Architectural Engineering Technology, Construction Engineering Technology, Construction Science Management, Engineering Graphics Technology

- This program is for students who want to receive their engineering education at an institute which is closely affiliated with hometown industries. It also provides a personalized learning environment to ensure greater success in the future.

(*See Note: Developmental Studies, COL 103 & EGR 102)

First Semester - Fall

CHM	110	College Chemistry I*	4.0
EGR	269	Engineering Disciplines & Skills	2.0
ENG	101	English Composition I*	3.0
MAT	140	Analytical Geometry & Calculus I *	4.0
		Humanities/Social Science Elective**	3.0

Second Semester - Spring

EGR	270	Introduction to Engineering	3.0
MAT	141	Analytical Geometry & Calculus II*	4.0
PHY	221	University Physics I*	4.0
ENG	102	English Composition II*	3.0

Third Semester - Summer

EGR	275	Introduction to Engineering/Computer Graphics	3.0
PHY	222	University Physics II*	4.0
		Humanities/Social Science Elective**	3.0
SPC	205	Public Speaking*+	3.0

Fourth Semester - Fall

ECE	221	Introduction to Electrical Engineering I	3.0
EGR	260	Engineering Statics	3.0
EGR	206	Introduction to Material Science	3.0
MAT	240	Analytical Geometry & Calculus III*	4.0
		Humanities/Social Science Elective **	3.0

Fifth Semester - Spring

EGR	262	Engineering Dynamics	3.0
MAT	242	Differential Equations*	4.0
EGR	203	Fluid and Thermal Systems	3.0
EGR	204	Mechanics of Materials	3.0
ENG	2##	Literature Elective	3.0

* General education course

+ Clemson no longer requires public speaking for Mechanical Engineering Majors

NOTE: The course schedule listed above is designed for students who begin the program with ENG 101 and MAT 140 based on the placement test. Students that are taking pre-requisite courses for MAT 140 should also take the following courses: COL 103 for students taking MAT 100 and/or EGR 102 for students who are taking MAT 105.

NOTE: See General Education course listing in this catalog for courses marked that are acceptable to transfer as Humanities or Social Science electives to Clemson. Note that engineering majors at Clemson require at least one of the Humanities/Social Science electives to be a literature course; one Humanities course that meets Cultural Awareness understanding; and one Social Science course that meets Science and Technology in Society awareness. Since requirements can change at other institutions at any time, it is well advised for students to get in touch with the department head of the program you wish to transfer into to ensure you are meeting the correct requirements for entrance into that program.

NOTE: Please contact program advisor for recommended evening schedules.

Visit <https://www.gvltec.edu/gainful-employment/> for important information about the educational debt, earnings and graduation rates of students who attended programs.