Regents Engineering Pathways (REP) program
(Formerly RETP)

The Regents' Engineering Pathways (REP) program was originally established in 1986 as the Regents Engineering Transfer Program (RETP) to expand the availability of engineering education opportunities for Georgians for a select number of USG institutions. As of September 1, 2016, this program will be known as The Regents' Engineering Pathways (REP) program and will be open to all USG institutions. In its current structure, students complete two or more years of engineering Pathways courses at participating University System of Georgia institutions and then transfer to Georgia Institute of Technology, Georgia Southern University, Kennesaw State University, Mercer University or the University of Georgia to complete a B.S. degree in Engineering (REP program Engineering Institutions).

Mission Statement

To encourage and accommodate students who desire to study engineering, but who for various reasons may prefer to attend another college before coming to an REP Engineering institution; this program offers the opportunity to transfer to an REP Engineering institution through the Regents' Engineering Pathways. REP students enjoy many of the advantages of REP students: they have equal access to engineering majors at REP, they can participate in the co-op program, and they are invited to the REP Engineering institution campus once a year for campus tours, information sessions, and meetings with advisors in their engineering majors.

Participating Institutions

The Regents' Engineering Pathways (REP) is a cooperative program between [Engineering Program] and participating REP Partner institutions within the University System of Georgia:

For the first two years, students in this program attend one of the REP Partner participating institutions, where they take all of the mathematics and science and many of the engineering courses required in the first two years of the REP Engineering institution's engineering curricula. Upon successful completion of the REP requirements at the REP Partner institution, students are admitted to the REP Engineering Institution to work toward completion of a Bachelor of Science in Engineering degree. The curriculum will be specific in the appendices for each Engineering Program.

Admission Requirements REP Programs

**** The information below is a curriculum roadmap.**
Following this curriculum does not guarantee admissions into Georgia Tech or UGA. Additionally, the student must meet application and transfer deadlines outlined by the REP institution.

Georgia Institute of Technology
Upon successful completion of mathematics, science, and engineering course requirements at a participating REP Partner institution, students may be admitted to Georgia Tech to complete an Engineering bachelor's degree.

- Students must meet REP institution and Georgia Tech admission requirements. Georgia Tech admissions requirements must be met at the time they submit their transfer application to Georgia Tech.

- Students must complete 30 credit hours at an REP partnering institution prior to transferring to Georgia Tech. These 30 hours must include courses that are part of the GT course requirements for transfer and must be completed post high school graduation.
- No more than one math or lab science course requirement may be in progress at the document deadline (spring and summer term applicants only).
- Students not enrolled within their REP institution for more than two consecutive semester must re-enroll for a minimum of one semester prior to their REP application to Georgia Tech.

Details about the admission requirements for specific majors can be found on the Georgia Tech College of Engineering website.

Georgia Southern University

- Students must apply for admission to Georgia Southern during the application filing period for the semester in which they wish to transfer. They must satisfy general admission requirements for Georgia Southern, including being in good standing at present institution at the time of transfer.
- Students must complete a minimum of 30 semester credit hours from the list of approved transfer courses (see Appendix B as an example) with grades of at least a "C" and a minimum cumulative GPA of 2.5 in those courses at the time of transfer. The REP Coordinator at each USG institution will meet with the CEIT's Director of Transfer and Co-op Programs to agree upon a set of approved courses specific to that institution.
- Students must have a cumulative GPA, math GPA, science GPA ***and*** engineering GPA of at least 2.5 at the time of transfer
- Other general education core curriculum transfer credits will be accepted based on the transfer rules established by the Board of Regents of the University System of Georgia.

Kennesaw State University

Meet transfer student admission requirements, complete the appropriate courses for the major in the curriculum chart (See Appendix C) with a cumulative grade point average (GPA) and a GPA Math and science courses of 2.7.

Mercer University

Students who transfer into the School of Engineering must have a minimum of 2.5 GPA in all college enrollments. In addition, students must also have a 2.5 GPA or higher in all college mathematics, science, and engineering courses (excluding developmental mathematics courses). They must also be in good standing, that is, not on warning, probation, suspension, or equivalent. The School of Engineering will consider transfer students at any stage in their education after successfully completing Calculus I (MAT191).

<u>Full Admission for Transfer Students to the BSE Degree Program</u>

Transfer students who seek full admission to the School of Engineering BSE degree program must satisfy the following conditions:

1) Have a minimum of a 2.5 GPA in all college enrollments;
2) Have a 2.5 GPA or higher in all degree relevant college math, science and engineering courses attempted. Courses are considered degree relevant only if they could be used (were an appropriate grade earned) to satisfy degree requirements in the specialization

or program to which the student is seeking transfer admission. For the purpose of this computation, all attempts or individual courses are included.

3) Have completed courses which transfer as CHM 111, PHY 161, MAT 191, and MAT 192.
4) Be in good standing at their previous school---that is, not on warning, probation, suspension, or the equivalent.

Conditional Admission for Transfer Students to the BSE Degree Program

Students who have completed a course which transfers as MAT 191 and have not yet completed CHM 111, PHY 161, and MAT 192, but who are otherwise eligible, may be granted conditional admission to the School of Engineering BSE degree program.

University of Georgia

Students from participating REP Partner institutions may be admitted to the University of Georgia to complete any one of the eight Engineering bachelor's degree programs. Students must submit the regular transfer admission application form along with a recommendation form from the REP Coordinator at their school. The criteria for transfer students include the following:

- Complete 30 college credit hours after high school from an REP partnering institution
- Must meet REP institution and University of Georgia admission requirements at the time of application
- One completed college course in math and/or laboratory science
- If applicable, must meet High-Demand-Major requirements for the intended degree

More details about the admission requirements for specific majors can be found on the University of Georgia College of Engineering website.

Advising of REP Partner students

Academic advisement of REP Partner students regarding the admissions and REP requirements will be the responsibility of the regular advising staff at the REP Partner. Each institution will monitor the academic performance of students enrolling under this agreement before transfer, and identify problems that may interfere with the successful transfer of students to the REP Engineering institution.

Program Management and Reporting

The REP Engineering institution and the REP Partnering USG Institution agree to cooperate in communicating with each other and between common and respective parties concerning the established relationship between the two institutions. Each institution will assume the responsibility for appropriate marketing to their respective students and faculty populations. Faculty and staff at both institutions will communicate information about the REP to students and prospective students.

The REP Engineering Institution will designate a REP Director and/or other point(s) of contact for the Program. The point of contact for REP Engineering Institutions are:

Georgia Institute of Technology
Georgia Southern University

Kennesaw State University
Mercer University
University of Georgia

The REP Director will be an academic faculty member in good standing. The Director will:

a) coordinate communication from their respective institutions and ensure that information is disseminated to the affected parties;
b) monitor student progress; and
c) annually evaluate and negotiate improvements for the REP.

The REP Partnering institutions will designate an REP Coordinator who will be an academic faculty member in good standing. The REP Coordinator will:

a) coordinate communication from their respective institutions and ensure that information is disseminated to the affected parties;
b) monitor student progress;
c) annually evaluate and negotiate improvements for the REP;
d) oversee advisement of REP students and serve as point of contact for academic advising questions; and
e) collect and manage transfer applications and Intent to Transfer Forms.

REP Engineering Institutions and REP Partner institutions agree to exchange relevant transfer student information for the purpose of monitoring and enhancing student retention, progression and graduation. The information may also be used to enhance curricular course offerings. At no time will the Family Education Rights and Privacy Act (FERPA) or Institutional Research Board (IRB) regulations or requirements be violated.

For more information about course requirement, please visit the REP Engineering institutional website.

http://www.usg.edu/strategic_academic_initiatives/committees/view/regents_engineering_Pathways

APPENDIX A **Georgia Institute of Technology**

The following chart lists Georgia Tech course requirements for students transferring via the REP:

Courses	**AE**	**BME**	**ChBE**	**CE**	**EnvE**	**EE**	**CmpE**	**ISyE**	**MSE**	**ME**	**NRE**
Biology I (Biol 1510)			X*		X*						
Differential Calculus (Math 1551)	X	X	X	X	X	X	X	X	X	X	X
Integral Calculus (Math 1552)	X	X	X	X	X	X	X	X	X	X	X
Introduction to Linear Algebra (Math 1553)	X	X	X	X	X	X	X	X	X	X	X
Multivariable Calculus (Math 2551)	X	X	X	X	X	X	X	X	X	X	X
Differential Equations (Math 2552)	X	X	X	X	X	X	X	**	X	X	X
Linear and Discrete Math (Math 2602)								X*			
Chemistry I (Chem 1211K)	X	X	X	X		X	X		X	X	X
Chemistry II (Chem 1212K)	X		X						X		
General Chemistry (Chem 1310)	O			O	O	O	O			O	O
Intro to Physics I (Physics 2211)	X	X	X	X	X	X	X	X	X	X	X
Intro to Physics II (Physics 2212)	X	X	X	X	X	X	X	X	X	X	X
Science Elective I				X*	X*	X*	X*	X			X*
Science Elective II								X*			
Computer Science (CS 1371)	X*	X*	X*	X*	X*	X*	X*	***	X*	X*	X*
Intro to Computing (CS 1301)								X			
English Comp I (Engl 1101)	X	X	X	X	X	X	X	X	X	X	X
English Comp II (Engl 1102)	X	X	X	X	X	X	X	X	X	X	X

O Chem 1310 or Chem 1211K and Chem 1212K will meet the requirement.

X* Courses may be taken at Georgia Tech; however, it is recommended that they are completed prior to transferring to Tech.

* Science electives may be selected from Chemistry, Biology, Physics, EAS, or other course approved by the engineering major.

** Linear and Discrete Math is required for ISyE majors – this course may be taken at Georgia Tech.

*** CS 1301 is required for ISyE majors.

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APPENDIX B **Georgia Southern University**

Sample approved transfer courses to Georgia Southern Engineering Programs:

Course	Credit Hours	Civil Engineer	Electrical Engineer	Mechanical Engineer
Calculus I (MATH 1441)	4	X	X	X
Calculus II (MATH 2442)	4	X	X	X
Calculus III (MATH 2443)	4	X	X	X
Differential Equations (MATH 3230)	3	X	X	X
Principles of Chemistry I (CHEM 1145) or CHEM 1147[1]	4	X	X	X
Principles of Chemistry II (CHEM 1146) or CHEM 1147[1]	4	X	X	X
Physics I (PHYS 2211and Lab) *calculus-based*	3	X	X	X
Physics II (PHYS 2212 and Lab) *calculus-based*	3	X	X	X
Engineering Graphics (ENGR 1133)	3	X		X
Computing for Engineers (ENGR 1731)	3	X	X	X
Engineering Mechanics (ENGR 2231)	3	X		X
Dynamics of Rigid Bodies (ENGR 2232)	3	X		X
Intro to Computer Engineering (ENGR 2332)	3		X	
Circuit Analysis (ENGR 2334)	3		X	
English Composition I (ENGL 1101)	3	X	X	X
English Composition II (ENGL 1102)	3	X	X	X
Humanities/Fine Arts Elective (Humanities Domain)[2]	3	X	X	X
Environmental Science Elective with lab (STEM Domain)[3]	4	X	X	X
Social Sciences Elective (Social Sciences Domain)[4]	3	X	X	X

1 CHEM 1147 – Comprehensive General Chemistry (4 Credit Hours) in place of CHEM 1145 & CHEM 1146.

2 Humanities/Fine Arts elective courses may be selected from courses in the Humanities Domain of the University System of Georgia Core IMPACTS Curriculum, as negotiated by the REP Coordinator of each participating institution and the CEIT's Director of Transfer and Co-op Programs.

3 Environmental Science electives with labs may be selected from courses in the STEM Domain of the University System of Georgia Core IMPACTS Curriculum, as negotiated by the REP Coordinator of each participating institution and the CEIT's Director of Transfer and Co-op Programs.

4 Social Sciences elective courses may be selected from courses in the Social Sciences Domain of the University System of Georgia Core IMPACTS Curriculum, as negotiated by the REP Coordinator of each participating institution and the CEIT's Director of Transfer and Co-op Programs.

APPENDIX C **Kennesaw State University**

The following chart lists Kennesaw State University course requirements for students transferring via the REP:

Courses	**CE-Civil Engineering**	**Const E-Construction Engineering**	**EE-Electrical Engineering**	**ENVI E-Environmental Engineering**	**ME-Mechanical Engineering**	**MECH E-Mechatronics Engineering**	**SWE-Software Engineering**	**ISYE-Industrial & Systems Engineering**
Composition I (ENGL 1101)	X	X	X	X	X	X	X	X
Composition II (ENGL 1102)	X	X	X	X	X	X	X	X
Human Communication (COM 1100)	X	X	X	X	X	X	X	X
Chemistry 1 (CHEM 1211+1211L)	X	X	X	X	X	X		X
Chemistry II (CHEM 1212+1212L)	X	X		X				
Physics I (PHYS 2211+2211L)	X	X	X	X	X	X	X	X
Physics II (PHYS 2212+2212L)	X	X	X		X	X		X
Biology (BIOL 1107/1107L)				X				
Calculus I (MATH 1190)	X	X	X	X	X	X	X	X
Calculus II (MATH 2202)	X	X	X	X	X	X	X	X
Differential Equations (MATH 2306)	X	X	X	X		X		
Probability & Statistics (MATH 2332) or ISYE 2600			X				X	X
Technical Writing (TCOM 2010)							X	X
Engineering Programming (CSE 1311)			X		X	X	X	X
Engineering Programming II (CSE 1312)							X	
Engineering Graphics (EDG 1211)					X	X		
Discrete Mathematics (MATH 2345)							X	

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APPENDIX D **Mercer University**

Students typically transfer to Mercer Engineering in one of six specialties as an incoming sophomore or junior. In order to transfer in as a junior with 2 years of academic standing, the following courses would be completed prior to transfer. Courses not taken at the RTP member school can be completed at Mercer but progress might be delayed at Mercer to meet prerequisite requirements. A personalized review can be requested at any time prior to transfer.

Curriculum Translation to the Junior Year Bachelor of Science in Engineering (BSE) at Mercer Engineering

Course Group	Sem-ester Hours	General Education or Engineering Core that applies to all BSE Specializations *	BME	CE	EE	ENV	IE	ME
Communications and Writing	3	TCO 141	X	X	X	X	X	X
Religion	3	One course	X	X	X	X	X	X
Humanities/Fine Arts	3	One course	X	X	X	X	X	X
Behavioral/ Social Science	3	One course	X	X	X	X	X	X
Quantitative Reasoning	8	MAT 191 and MAT 192	X	X	X	X	X	X
Scientific Reasoning	12	CHM 111, PHY 161, and one more lab-based science course	X	X	X	X	X	X
General Education Electives	6	Two 3-hr courses drawn from Communications, Humanities, Fine Arts, Behavioral, or Social Science options	X	X	X	X	X	X
Math and Science	Varies		BIO205 CHM112 MAT293 MAT330 PHY162	MAT330 PHY162	MAT293 MAT330 PHY162	MAT330 CHM112	MAT330	MAT293 MAT330
Engineering	Varies	Engineering Core from list (1,2) below	X	X	X	X	X	X

* BME: Biomedical Engineering, CE: Computer Engineering, EE: Electrical Engineering, ENV: Environmental Engineering, IE: Industrial Engineering, ME: Mechanical Engineering. Visit http://engineering.mercer.edu/academics/undergraduate/ for detailed curricula and course descriptions or the catalog at https://registrar.mercer.edu/macon/catalogs.cfm .

(1) Freshman Year: EGR 126, EGR 107
(2) Sophomore Year: EGR 232, EGR 235, EGR 236, EGR 244, EGR 245, EGR 252

Updated 3/23/16

APPENDIX E **University of Georgia**

The following chart lists University of Georgia course requirements for students transferring via the RTP:

Courses	**BSAE**	**BSBChE**	**BSBE**	**BSCE**	**BSCSE**	**BSENVE**	**BSEE**	**BSME**
Calculus I MATH 2250 or Analytic Geometry and Calculus MATH 2200	x	x	x	x	x	x	x	x
Calculus II MATH 2260	x	x	x	x	x	x	x	x
Calculus III MATH 2500	x	x	x	x	x	x	X	x
Differential Equations MATH 2700	x	x	x	x	x	x	x	x
General Chemistry CHEM 1211	x	x	x	x		x	x	x
General Chemistry CHEM 1212		x	x			x		
Introductory Physics I PHYS 1211/L	x	x	x	x	x	x	x	x
Introductory Physics II Physics PHYS 1212/L	x	x	x	x	x	x	x	x
Biology Course *	x	x	x	x	x	x	x	x
Science Elective@	x	x	x	x				
Speech Communications COMM 1100	x	x	x	x			x	x
Computer Programming #	x	x	x	x	x	x	x	x
Software Development CSCI 1302					x			
Discrete Math for Engineers CSCI 2611					x			
Engineering Graphics and Design ENGR 1120	x	x	x	x				x
Engineering Graphics and Visualization ENVR 1110						x		
Probability and Statistics ENGG 2090					x		x	
English Comp I ENGL 1101	x	x	x	x	x	x	x	x
English Comp II ENGL 1102	x	x	x	x	x	x	x	x

* Biology course approved by the engineering major

@ Science electives include chemistry, biology, ecology, anthropology, geography courses depending on the engineering major.

UGA course Computational Engineering Methods ENGR 1140 or Introduction to Computing and Programming CSCI 1301/L as approved by the engineering major

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