Dear Student:

Congratulations on your admission to the College of Engineering and Computer Science (ECS)! We are delighted that you have decided to attend Syracuse University and look forward to an exciting and mutually beneficial interaction over the coming years.

To allow you to enroll in the courses most appropriate for you, Syracuse University has developed an online registration process called First Term Enrollment Selection (FTES) available on http://myslice.syr.edu. Our experience over the past few years has demonstrated that this procedure will help you enroll in the courses that you need to succeed in ECS and will make your Orientation Weekend experience much more satisfying. Please help us to make this possible by completing your final course selection by June 26, 2015. For instruction please refer to http://eng-cs.syr.edu.

Building a mastery of mathematics will probably be the most critical element of your first year in Engineering and Computer Science. We want to work with you to make certain that the first math course you take at Syracuse University is the appropriate course for your current skill level and for long-term success. To this end, the College of Engineering and Computer Science students have to take a mandatory online Mathematics Placement Exam available at http://myslice.syr.edu. The Mathematics Placement Exam is a 60-minute examination that covers algebra, trigonometry, geometry, and pre-calculus competency. Our past experience demonstrates that this exam has accurately assisted us in advising students in registering for the appropriate mathematics course.

Over the summer, you will be receiving information about Syracuse Welcome, which is held in late August immediately before classes begin. During Orientation Weekend, you will attend the Dean’s Welcome Meeting for students in the College; receive more detailed information about your program of study; have the opportunity to speak with faculty, staff, and student peer advisors; and adjust your fall course registration.

Please take the time to complete the FTES and the Mathematics Placement Exam by June 26, 2015. In the meantime, if you have any questions or concerns that are not addressed in these materials, contact us at 1–800–295–1225 (Monday-Friday, 9 a.m. to 4:30 p.m., EDT) or visit the website http://eng-cs.syr.edu.

We look forward to meeting you at the Dean’s Welcome Meeting on Friday, August 28, 2015.

Sincerely,

Can Isik
Senior Associate Dean
College of Engineering and Computer Science

Julie M. Hasenwinkel
Associate Dean for Student Affairs
College of Engineering and Computer Science
First Term Enrollment Selection Instructions

Please review the following instructions. If you have any questions, please call 1–800–295–1225.

1. To access MySlice students must activate the NetID and Password. Here is a link to Net ID and Password help: [http://its.syr.edu/netid](http://its.syr.edu/netid).

2. Once you have completed step one, go to [http://myslice.syr.edu](http://myslice.syr.edu) and click under Enrollment - First Term Enrollment Selections.

3. Review the links: “Instructions: How to complete this form” and “Courses Available to First-Year Students” located under Resources.

4. Complete Mathematics Placement Exam online [http://myslice.syr.edu](http://myslice.syr.edu). For instructions see (page 6)

5. Review required, non-technical and optional course descriptions. Select your elective or replacement courses. (see page 4)

6. ECS Major Confirmation. Please confirm your intended major. If you want to change majors within ECS, indicate your choice by checking the appropriate box.

7. Look for special instructions if you:
   - Intend to participate in the Syracuse University Marching Band. (page 5)
   - Intend to enroll in ROTC. (page 5)

8. Deadline to Submit Final “First Term Enrollment Selection” is June 26, 2015

Staff Directory

Undergraduate Student Records Office & Study Abroad

Maria Marceau, Director
Nicole Adkins, Assistant to the Director

For questions or more information on your FTES
[undergradrecords@ecs.syr.edu](mailto:undergradrecords@ecs.syr.edu)
315-443-5191

Undergraduate Student Success Center
First-Year Programs and Programs Rooted in Developing Excellence (PRIDE)

Kate Pynn, Director
Sarah Mack, Program Coordinator
Giovanna Colosi, Academic Advisor
Scott Freeney, Academic Advisor

For questions or more information
Stephanie Ross, Office Coordinator
[parent@ecs.syr.edu](mailto:parent@ecs.syr.edu)
315-443-2582
Description of Required Courses

**ECS 101**  
**Introduction to Engineering and Computer Science** (3 credits) Engineering and Computer Science gateway course. Topics include: discussion of each discipline within the college, technical communication, presentation of technical results, professional behavior, ethics, computers and software packages, problem solving and modeling, data analysis. *Major-specific sections.*

**ECS 102**  
**Introduction to Computing** (3 credits) Computing concepts. Principles of programming. Applications of computing concepts to problem solving in engineering and computer science. Laboratory topic will include problem-solving projects from various disciplines within the college. *Only for Computer Science and Systems & Information Science students during the fall semester.*

**ECS 100**  
**First Year Engineering Experience**, is a 1-credit course designed to help first-year students in their transition from high school to college and create a foundation for success in ECS. The course combines lecture material with small group, hands-on activities which introduce students to various fields of Engineering and Computer Science and provide an opportunity for new students to connect with each other, upperclassmen, Faculty and Staff, and College/Campus resources. Additionally, students will learn skills and strategies for success in college both personally and academically.

**CHE 106/107**  
**General Chemistry Lecture (with Lab)** (4 credits) Fundamental principles and laws underlying chemical action, states of matter, atomic and molecular structure, chemical bonding, stoichiometry, properties of solutions, chemical equilibrium, and introductory thermodynamics. Descriptive chemistry in relation to theoretical principles. (Bioengineering, Chemical and Environmental Engineering Students)

**CHE 150/151**  
**General Chemistry for Engineers Lecture (with Lab)** (4 credits) This course is designed for engineering students needing only a single semester of chemistry. It concentrates on the fundamental principles and laws underlying states of matter, nomenclature, periodicity, chemical reactions (oxidation-reductions, acid-base, etc.), stoichiometry, equilibrium, thermodynamics, materials properties (metals, nonmetals, polymers, etc.) and electrochemistry. This subject matter prepares students for the common section of the NCEES Fundamentals of Engineering (FE) Exam. (Aerospace, Civil, Electrical, Mechanical, Undeclared and Computer Engineering Majors)

**MAT 193**  
**Algebra-Infused Precalculus** (4 credits) Polynomial, rational, exponential, and logarithmic functions. Analytical trigonometry and trigonometric functions. Emphasis on algebra throughout the course. A student cannot receive credit for MAT 193 after receiving a grade of C or better in any calculus course. Credit cannot be given for both MAT 193 and MAT 194.

**MAT 194**  
**Precalculus** (4 credits) Polynomial, rational, exponential, and logarithmic functions. Analytical trigonometry and trigonometric functions.

**MAT 295**  
**Calculus I** (4 credits) Analytic geometry, limits, derivatives, maxima-minima, related rates, graphs, differentials, exponential and logarithmic functions, mean-value theorem, integration.

**MAT 296**  
**Calculus II** (4 credits) Integration: the definite integral and applications, trigonometric functions, methods of integration, improper integrals, L’Hospital’s rule, infinite series, elementary differential equations, parametric equations, polar coordinates.
Description of First Semester Non-Technical Courses

ECN 203  Economic Ideas and Issues (3 credits) Foundation of modern Western economic thought. The model economists have built on this foundation as applied to current issues facing individuals and society. Credit is given for either ECN 203 or ECN 101, 102 or ECN 109. *A required course for Mechanical Engineering students only.*

WRT 105  Studio 1: Practices of Academic Writing (3 credits) Study and practice of writing processes, including critical reading, collaboration, revision, editing, and the use of technologies. Focuses on the aims, strategies, and conventions of academic prose, especially analysis and argumentation.

Elective  Engineering majors may choose an elective from the Social Sciences or Humanities Division; Computer Science majors may choose an elective from the Social Sciences, Humanities, or Natural Science Division.

Select Elective Courses

During the online Registration process, you may choose one elective (except for Computer or Mechanical Engineering students) from the list of “Courses Available to First-Year Students” link located on the FTES; select one course from this list as your first choice course. You should also select up to four choices in case we are unable to place you in your first choice course.

Find the Additional Course Choices area on your FTES, page 3. You may choose up to four courses in case we are unable to enroll you in your first choice. No course should be listed twice.

You may replace the following required course:

- WRT 105  Studio 1: Practices of Academic Writing

For example, if you are replacing WRT 105 with PHI 171, Critical Thinking, please type: Subject, Course Number, and Credits. Your course selection should look like this:

<table>
<thead>
<tr>
<th>Elective or Replacement Courses:</th>
<th>Subject</th>
<th>Catalog #</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Choice</td>
<td>PHI</td>
<td>171</td>
<td>3</td>
</tr>
<tr>
<td>2nd Choice</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3rd Choice</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Continue by indicating alternate courses on the remaining rows. We will select another elective to ensure that you meet the full-time status requirement of (12) credits.
Description of Optional Courses

You may also register for one of the following optional courses. Read through the descriptions for the ECS Academic Excellence Workshop, Marching Band Option, and Army/Air Force ROTC and determine if you wish to register for one.

**ECS XXX**  
**Academic Excellence Workshop for Calculus courses**  
(1 credit) Highly recommended for first-year students because it is designed to supplement the theory taught in pre-calculus – calculus III courses. Problems will incorporate course work. The computational component is designed to reinforce the understanding of concepts through a series of repetitive exercises. Limited enrollment.

If you plan to enroll, on your First Term Enrollment Selections, check the appropriate box, under Academic Excellent Workshop.

**ENI 510**  
**Syracuse University Marching Band (SUMB) Option “The Pride Of The Orange”**

If you are interested in participating in “The Pride of the Orange,” Syracuse University Marching Band, please contact the band office at 315-443-2194 or e-mail Fran Moore at fmmoore@syr.edu. All members are required to attend band camp the week before classes begin. Rehearsals averaging six hours per week (three evenings, two hours each) occur during the fall semester with additional rehearsals during game week. You are required to register for Marching Band (ENI 510) for one credit. If you are at a maximum credit load, your college will contact the band office for consent.

Find the Special Categories area on your First Term Enrollment. Under SUMB, mark an **X** in the appropriate box.

**MST 101**  
**Reserve Officer Training Corps (ROTC)**

If you are interested in enrolling in the Army or Air Force Reserve Officer Training Corps (ROTC), you should have received information in a separate mailing. If you have not received information, please call or e-mail to find out more about the program that interests you. The Army course meets once a week for academics, two leadership lab hours and three physical fitness hours each week, and the Air Force meets for three academic and three physical fitness hours each week. Courses taken through the ROTC program are counted as *additional* courses—they are in addition to the normal course load. AFROTC courses can be taken for credit or noncredit. Army ROTC offers merit based scholarships that pay for full tuition and fees at Syracuse, as well as monthly stipends. Air Force ROTC also offers merit-based scholarships that pay for full or partial tuition and fees, and gives each recipient a monthly stipend. In addition, all Army and Air Force ROTC scholarship winners receive an annual $9,500 Leadership Award from the University that can be applied to their room and board fees.

Find the Special Categories area on your First Term Enrollment Selections. Under ROTC, mark an **X** in the appropriate box, either **Air Force** or **Army**.

**Special Categories**

**Air Force**  
Air Force: 1–800–295–7456  
315–443–2461  
e-mail: afdet535@syr.edu  
[http://afrotc.syr.edu](http://afrotc.syr.edu)

**Army**  
Army: 1–800–295–3705  
315–443–2462  
e-mail: armyrotc@syr.edu  
[http://armyrotc.com/edu/syracuse](http://armyrotc.com/edu/syracuse)
Mathematics Placement Examination Instructions

All students entering the College of Engineering and Computer Science (ECS) must take this Mathematics Placement Examination (MPE) available online at http://myslice.syr.edu. The exam consists of questions designed to probe your understanding of a range of mathematics, ranging from basic algebra to calculus (it is not expected that you will be proficient in calculus yet). The results of the exam will be valuable as we recommend a preliminary placement math course to take in your first semester in ECS. Your final placement will be determined based on another math assessment given during Orientation Weekend to make certain that your placement for the fall semester is still appropriate.

If you expect to earn AP credit or have transfer credit, you may not take the equivalent Syracuse University course for which you have been awarded credit because the Advanced Placement or transfer credit will be deleted, and you will lose the credit. Call 1–800–295-1225 if you have questions.

Take the Mathematics Placement Examination

- Complete your Mathematics Placement Examination online at: http://myslice.syr.edu.
- The examination contains 50 questions and you are allotted 60 minutes.
- You will then have access to a summary page that will indicate the appropriate course(s) for registration. These course selections have been determined by the mathematics department.
- Once you submit a question, that question is scored and the answer can’t be changed. Attempting to change a submitted answer will not affect your score.
- This is a preliminary placement test. Please be sure that the answers are an accurate reflection of your own knowledge to avoid placement in a course for which you may not be academically prepared.
- Do NOT use a calculator of any kind.
- Do NOT use any books or reference notes.
- Do your own work, without receiving additional help from family or friends.

Calculator Policy

Since your mathematics course and/or section assignments will not be considered final until you have met with an advisor, please wait to purchase a calculator until your arrival for Orientation Weekend in August.

The type of calculator used in mathematics courses varies from course to course. The following courses use the indicated calculator.

<table>
<thead>
<tr>
<th>Course</th>
<th>Calculator</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 193, MAT 194</td>
<td>Ti-84 or Ti-83 is required.</td>
</tr>
<tr>
<td>MAT 295, 296, 397</td>
<td>Students are expected to complete the calculus sequence without the use of a calculator.</td>
</tr>
</tbody>
</table>

The Syracuse University Bookstore sells these calculators and has a limited number of calculators available for rent.
Frequently Asked Questions

I have AP credit in Calculus. Do I still need to take the Mathematics Placement Exam?
Yes. All newly admitted College of Engineering and Computer Science students are required to take the Mathematics Placement Exam to assure placement in the proper mathematics/calculus course.

Do I still need to meet with an advisor during Orientation Weekend even though I will be pre-registered?
No. Although the ECS office will make every effort to register you for the appropriate courses, during Orientation Weekend you may attend your advising session to go over your fall schedule and make necessary adjustments.

When will I be assigned an advisor?
Advisor assignments are made by the College in mid-August. You will receive notification of your advisor assignment during Orientation Weekend.

Should I register for Academic Excellence Workshop – ECS XXX?
Yes. It is highly recommended for first-year students to enroll in ECS XXX because it is designed to supplement the theory taught in calculus courses and helps you master the subject.

When can I get my email/computer account?
You will receive in the mail instructions to set up your Syracuse University NetID. Here is a link to Net ID and Password help: http://its.syr.edu/netid/.

When can I purchase my textbooks?
During the summer, the SU Bookstore will send you information about purchasing books according to your schedule. The books will be packed and ready for pick up during Orientation Weekend. Alternately, you may opt to purchase your textbooks when you arrive on campus. The SU Bookstore has extended hours at the start of each semester to accommodate your shopping needs.

Should I bring or buy my own computer?

Bringing your own personal computer is a personal choice. Many students find it convenient to own a personal computer. If you do not wish to purchase or bring your own computer, there are many computer labs located throughout campus and residence halls for your use. Be sure to check with your future roommate(s) to see if they are bringing a computer and also how you might be able to share as needed.

The University Bookstore offers University-recommended computers, computer software, and many accessories. Syracuse University students, faculty and staff can receive significant savings on educationally priced software. For more information on computing services, go to Information Technology & Services website at http://its.syr.edu/netid/