Dear Student:

Congratulations on your admission to the College of Engineering and Computer Science (E&CS)! 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 E&CS and will make your Opening Weekend experience much more satisfying. Please help us to make this possible by completing your final course selection by June 28, 2014. 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 Opening Weekend, which is held in late August immediately before classes begin. During Opening Weekend, you will attend the Opening Convocation for students in the College of Engineering and Computer Science; 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 First Term Enrollment Selection and the Mathematics Placement Exam by June 28, 2014. 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 College Convocation on Friday, August 22, 2014.

Sincerely,

Laura J. Steinberg
Dean
College of Engineering and Computer Science

If you were admitted to a school or college at Syracuse University other than the College of Engineering and Computer Science, please call 1–800–295–1225 and request the proper packet.
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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 (pages 9-10)

5. Review first term semester enrollment; technical, non technical and optional course descriptions. Select your elective or replacement courses. (pages 4-8)

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

7. Look for special instructions if you:
   - Have been admitted to the Renée Crown University Honors Program. (see below)
   - Plan to attend SummerStart. (see below)
   - Plan to participate in a Learning Community. (page 7)
   - Intend to participate in the Syracuse University Marching Band. (page 8)
   - Intend to enroll in ROTC. (page 8)
   - Have received or are expecting college credit from Advanced Placement, SU Project Advance, or other college examination or transferred from another college. (page 11)

8. Deadline to Submit Final “First Term Enrollment Selection” is June 28, 2014

**Renée Crown University Honors Program**

If you have been admitted to the Renée Crown University Honors Program, please refer to the special, supplemental online registration information on your FTES page. Please wait to make your final selection of courses until you read this material. If you have questions about selecting Honors courses, call 1–800–295–2537 and ask to speak to Hanna Richardson.

**SummerStart Students**

If you are planning to participate in SummerStart, you must still complete and submit the fall FTES by June 28th, 2014. You must also submit your placement examinations. Registration for SummerStart will be conducted via email. If you have questions regarding SummerStart, call E&CS at 315-443-2582 or the SummerStart office at (315) 443–5045. For a general overview of courses available during SummerStart, see the program’s website at [http://summerstart.syr.edu](http://summerstart.syr.edu).
First Term Enrollment Courses

The College of Engineering and Computer Science (E&CS) recommends that students take up to 15 – 17 credits in the first semester to assist with the transition to university academics. Using this online registration process, you will be registered for required courses and an elective course of your choosing. For Computer Engineering, the elective course is replaced by a required Logic course.

On the “First Term Enrollment Selection” page and the Required Courses and Student Data, you will see the following courses listed:

Bioengineering, Chemical and Environmental Engineering Majors will automatically be enrolled in:

- **ECS 101** Introduction to Engineering and Computer Science (3)
- **ECS 103** First Year Success Forum, (1)
- **CHE 106/107** General Chemistry Lecture / Lab (4) or CHE 109/129 (4) Honors Replacement
- **WRT 105** Studio 1: Practices of Academic Writing (3) or WRT 109 (3) Honors Replacement
- **MAT XXX** Appropriate mathematics course (3-4)
- **SSH XXX** An elective from the Social Sciences or Humanities

All other Engineering Majors (including Undeclared) will automatically be enrolled in:

- **ECS 101** Introduction to Engineering and Computer Science (3)
- **ECS 103** First Year Success Forum, (1)
- **CHE 150/151** General Chemistry for Engineers Lecture / Lab (4) or CHE 109/129 (4) Honors Replacement
- **WRT 105** Studio 1: Practices of Academic Writing (3) or WRT 109 (3) Honors Replacement
- **MAT XXX** Appropriate mathematics course (3-4)
- **SSH XXX** An elective from the Social Sciences, Humanities or Natural Science Division (3)
- **PHI 251** Logic (a required course for Computer Engineering students only) (3)

Computer Science & Systems & Information Science Majors will automatically be enrolled in:

- **ECS 101** Introduction to Engineering and Computer Science (3)
- **ECS 102** Introduction to Computing (3)
- **ECS 103** First Year Success Forum, (1)
- **WRT 105** Studio 1: Practices of Academic Writing (3)
- **MAT XXX** Appropriate mathematics course (3-4)
- **SSH XXX** An elective from the Social Sciences, Humanities, or Natural Science Division (3)
Optional Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECS XXX</td>
<td>Academic Excellence Workshop for calculus courses (1)</td>
</tr>
<tr>
<td>ASC 101</td>
<td>Air Force ROTC (0)</td>
</tr>
<tr>
<td>ENI 010</td>
<td>Marching Band (1)</td>
</tr>
<tr>
<td>MST 101</td>
<td>Army ROTC (0)</td>
</tr>
</tbody>
</table>

Important:
You must attend your advising session during Opening Weekend to complete your fall registration. Failure to attend this session will cause a delay in your course attendance.
Description of First Semester Technical 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 103**  
**First Year Success Forum**, (1credit) is a small group pass/fail eight week course designed to assist E&CS first-year students with the transition from high school to the university setting. This course will introduce students to resources at Syracuse University that will assist them in academic, social, cultural, and personal development. Participants will also have the opportunity to interact with staff and students who will be helpful during their academic career within E&CS at Syracuse University. In addition, the course will provide a sense of esprit de corps among the students which is critical for student satisfaction and retention.

**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.

**Note Regarding Math Course:** No Advanced Placement or transfer credit will be awarded without satisfactory results on the E&CS Mathematics Placement Examination.
Description of First Semester Non-Technical Courses

**PHI 251** Logic (3 credits) Fundamental concepts and techniques employed in analysis and evaluation of arguments. *A required course for Computer 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 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>
</tr>
</thead>
<tbody>
<tr>
<td>Subject Area</td>
</tr>
<tr>
<td>1st Choice</td>
</tr>
<tr>
<td>2nd Choice</td>
</tr>
<tr>
<td>3rd Choice</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.

Note Regarding Learning Communities

If you have applied to participate in a Learning Community, it may have one or more required courses. When you make your course selections, please list any Learning Community course as one of your first choices. Information about courses required for learning communities can be found online at [http://lc.syr.edu](http://lc.syr.edu).
Description of Optional Courses

You may also register for one of the following optional courses. Read through the descriptions for the E&CS 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 marching band, please contact the Band Office at 315.443.2194 or email Fran Moore at fmmoore@syr.edu. If you have already informed the Band Office of your interest, in the SUMB, then no other action needed. 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 will be 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 Marching Band, 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.

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**Special Categories**

**Air Force**

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

**Army**

- Army: 1–800–295–3705
- 315-443-2462
- e-mail: armyrotc@syr.edu
Mathematics Placement Examination Instructions

All students entering the College of Engineering and Computer Science (E&CS) 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 E&CS. Your final placement will be determined based on another math assessment given during Opening 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.
- Read the MPE Honor Pledge in page 10.

Calculator Policy

Since your mathematics course and/or section assignments will not be considered final until you have met with your faculty advisor please wait to purchase a calculator until your arrival for Opening 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>TI-84 or TI-83 is recommended. On exams and quizzes where calculator use is permitted, any graphics calculator may be used, but calculators with a symbolic calculus capability, such as the TI-89 or TI-92, are forbidden.</td>
</tr>
</tbody>
</table>

The Syracuse University Bookstore sells these calculators and has a limited number of calculators available for rent.
Mathematics Placement Examination Honor Pledge

How we use the Mathematics Placement Exam

We will immediately score your online exam upon receipt and then use the score along with other personal factors (e.g., SAT/ACT scores, high school math course background) and our historical data on the success of previous EC&S students for your initial math placement. E&CS staff will register you for the recommended math course along with the other first-semester courses selected as part of the Online Registration Process. We will send a letter to your permanent address at the end of July providing you with information about your score and your preliminary math course placement. During Opening Weekend, another math assessment will be given to make certain that your placement for the fall semester is still appropriate. You will have an opportunity to meet with an advisor to further discuss your math placement and make any necessary adjustments to your schedule.

Why we administer the Mathematics Placement Exam

The Mathematics Placement Exam is administered and its results used as a way to make your first semester at SU more successful and to build a foundation that will lead to your graduation as an engineer or computer scientist. Mathematics is the foundation of all engineering, computer science and systems information science disciplines; without mastery of mathematics it is unlikely that a student can graduate from these demanding disciplines. The number one reason that E&CS students are put on probation or transfer to other schools is poor performance in the calculus sequence. We want to avoid these outcomes, so we have instituted this process that significantly enhances the probability of success. Students come to SU E&CS from different backgrounds and with different math abilities. We believe that all students admitted here can succeed given the right environment and right support—a key part of developing the right environment is placement in the proper first math course.

On your First Term Enrollment Selections, please check the appropriate box if you have or have no Background in Calculus.

☐ ☐ No background ☐ ☐ One semester ☐ ☐ Two semesters

Honor Pledge

I pledge that I have followed the instructions provided in this page, have not used a calculator, books, or reference materials, and that all work is my own.

Note regarding Advance Placement or college level credit in Mathematics.

You will not select to replace this course with an elective at this time because Advanced Placement or transfer credit will not be awarded without satisfactory results on the E&CS Mathematics Placement Exam. You will adjust your schedule during Opening Weekend with the help of your advisor.
College Level Credit

Find **College Level Credit** on your First Term Enrollment Selections, page 2 and make sure you answer the following questions:

- Enter Advanced Placement (AP), International Baccalaureate (IB), College Level Examination Program (CLEP) full examination title and score (if you know it) for any of these tests you have taken or will take this summer credits? If so, please list the type of credit and the full examination title, such as "AP-English Composition and Literature", "IB-Social Anthropology".

- Enter Syracuse University Project Advance (SUPA) course titles you have taken or will take this summer.

- Enter course title and college name for courses taken at other colleges.

**Sample List of College Board Advanced Placement Examinations**

<table>
<thead>
<tr>
<th>Exam Subject/Title</th>
<th>Minimum Score</th>
<th>Awardable Credit</th>
<th>Equivalent SU Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>4</td>
<td>8</td>
<td>BIO 121, 123, 124</td>
</tr>
<tr>
<td>Chemistry</td>
<td>5</td>
<td>8</td>
<td>CHE 106,107,116,117</td>
</tr>
<tr>
<td>English Language and Composition</td>
<td>4</td>
<td>6</td>
<td>WRT 105, 205</td>
</tr>
<tr>
<td>English Literature and Composition</td>
<td>4</td>
<td>6</td>
<td>WRT 105 and ETS 151 or ETS 152</td>
</tr>
<tr>
<td>European History</td>
<td>4</td>
<td>6</td>
<td>HST 111, 112</td>
</tr>
<tr>
<td>Human Geography</td>
<td>4</td>
<td>3</td>
<td>GEO 105 or 171</td>
</tr>
<tr>
<td>Mathematics—Calculus AB</td>
<td>4</td>
<td>4</td>
<td>**MAT 295</td>
</tr>
<tr>
<td>Mathematics—Calculus BC</td>
<td>4</td>
<td>8</td>
<td>**MAT 295, 296</td>
</tr>
<tr>
<td>Physics C (Mechanics)</td>
<td>3</td>
<td>4</td>
<td>PHY 101 or 211, 221</td>
</tr>
<tr>
<td>Physics C (Electricity and Magnetism)</td>
<td>3</td>
<td>4</td>
<td>PHY 102 or 212, 222</td>
</tr>
<tr>
<td>U.S. Government and Politics</td>
<td>3</td>
<td>3</td>
<td>PSC 121</td>
</tr>
<tr>
<td>U.S. History</td>
<td>4</td>
<td>6</td>
<td>HST 101, 102</td>
</tr>
<tr>
<td>World History</td>
<td>4</td>
<td>6</td>
<td>HST 121,122</td>
</tr>
</tbody>
</table>

**Pending results of Mathematics Placement Exam**

**Important:**

If you expect to receive **Advanced Placement** credit, **Project Advance** credit, or **transfer** credit, we MUST receive the appropriate scores and official transcripts by July in order to process your schedule accurately. If scores or transcripts are received close to Opening Weekend, you must adjust your schedule accordingly at that time with the help of your advisor.
Frequently Asked Questions

? I have AP credit in Calculus. Do I still need to take the Mathematics Placement Exam?
A 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 Opening Weekend even though I will be pre-registered?
A Yes. Although the E&CS office will make every effort to register you for the appropriate courses, during Opening Weekend you must attend your advising session to go over your fall schedule and make necessary adjustments.

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

? Should I register for Academic Excellence Workshop – ECS XXX?
A 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?
A 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?
A 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 Opening 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?
A 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/.