School of Engineering & Applied Sciences
Advising Session
Orientation Outline

- Become familiar with SEAS
- Know your degree requirements
- Policies and Expectations
- Prepare yourself professionally
- First semester schedule overview
- Registration
Key Contacts in SEAS

- Liesl Folks, Dean
- Jeffrey Errington, Associate Dean, Undergraduate Education
- Department Chairs
  - Biomedical Engineering - Albert Titus
  - Chemical and Biological Engineering - Stelios Andreadis
  - Civil, Structural and Environmental Engineering - Joseph F. Atkinson
  - Computer Science and Engineering - Chunming Qiao
  - Electrical Engineering - Stella Batalama
  - Industrial and Systems Engineering - Ann Bisantz
  - Mechanical and Aerospace Engineering - Kemper E. Lewis
Advisement

- Office of Undergraduate Education – 410 Bonner Hall
  - Primarily your first two years
  - See any available advisor or can continue with same one if desired
- Departmental Advisement – junior and senior years
  - Undergraduate Studies Directors
    - Matthew Ringuette, Aerospace Engineering
    - Albert H. Titus, Biomedical Engineering
    - Johannes M. Nitsche, Chemical Engineering
    - Mettupalayam Sivaselvan, Civil Engineering
    - Atri Rudra & Carl Alphonce, Computer Science and Engineering
    - Michael Langberg & Kevin Burke, Electrical Engineering
    - James N. Jensen, Environmental Engineering
    - Jun Zhuang, Industrial Engineering
    - Robert C. Wetherhold, Mechanical Engineering
Academic Tools

- Email
  - Your UB email account – Check it, Use it!
  - Email etiquette

- Listservs

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**Greater Buffalo IT/Dev Day**

Computer Engineering Undergrad List [CENUG-L@LISTSERV.BUFFALO.EDU] on behalf of Justice, Holly [hjustice@buffalo.edu]

Sent: Sat 6/6/2009 2:22 PM
To: CENUG-L@LISTSERV.BUFFALO.EDU

Just for your information

Greater Buffalo IT/Dev Day

Mark your calendars! MSDN and TechNet in conjunction with the [Western New York .NET Users Group](http://www.wny.net) are bringing the Greater Buffalo IT/Dev Day to [Daemen College](http://www.daemen.edu) in Amherst on July 21st. This is a FREE event!
Academic Advisement

The Office of Undergraduate Education provides advisement for all of the departments within the School of Engineering and Applied Sciences. Our online tools can help you to plan out your courses at UB.

Course Flowsheets

Our interactive guides provide a semester-by-semester outline of the courses within a curriculum. These flowsheets enable students and advisors to visualize the pre-, co-, and post-requisites.

Freshman Small Groups

These innovative, academic small groups consist of upperclass student leaders who work closely with freshmen to help them transition across the core curriculum of chemistry, math, and physics.
# Freshmen Flowsheet for Mechanical Engineering BS
**(Effective AY 2016-17 to AY 2017-18)**

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
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<tr>
<td>MTH 141</td>
<td>MTH 142</td>
<td>MTH 241</td>
<td>MTH 306</td>
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<tr>
<td>Calculus 1</td>
<td>Calculus 2</td>
<td>Differential Equations</td>
<td>Plane Mechanics</td>
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<tr>
<td>CHE 197</td>
<td>PHY 107</td>
<td>PHY 109</td>
<td>EAS 208</td>
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<tr>
<td>Chemistry 1</td>
<td>Physics 1</td>
<td>Physics 2</td>
<td>Dynamics</td>
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<td>EAS 199</td>
<td>EAS 250</td>
<td>EAS 158</td>
<td>EAS 209</td>
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<td>First-Year Seminar</td>
<td>Engineering Computations</td>
<td>Physics 2 Lab</td>
<td>Mechanics of Solids</td>
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<tr>
<td>ENG 105</td>
<td>MAE 177</td>
<td>EAS 207</td>
<td>EE 200</td>
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<tr>
<td>Communication Literacy</td>
<td>Engineering Drawing and CAD</td>
<td>Statics</td>
<td>EE Concepts</td>
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<tr>
<td>EAS 202</td>
<td>MAE 204</td>
<td>EAS 205</td>
<td>EAS 500</td>
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<tr>
<td>Engineering Impact on Society</td>
<td>Thermodynamics</td>
<td>Engineering Materials Lab</td>
<td>STEM Communications</td>
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<tr>
<td>MAE 277</td>
<td>MAE 381</td>
<td>MAE 385</td>
<td>UBC 396</td>
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<tr>
<td>Introduction to Practice</td>
<td>Engineering Materials</td>
<td>Engineering Materials Lab</td>
<td>UB Engineering</td>
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<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Within the flowsheet presented above, students are expected to satisfy four of the five UB Areas and the Diversity Learning requirement via the four Thematic/Global pathway courses shown. List 3 Thematic and Global pathway courses are expected to be completed within the major. Please see the pathways website for more information.</td>
</tr>
</tbody>
</table>

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Place the mouse over a course to highlight the:
- course prerequisite sequence
- course prerequisites
- course corequisite sequence
- course corequisites
- course post-corequisites
- postrequisite course sequence
Orientation Outline

- Become familiar with SEAS
- **Know your degree requirements**
- Policies and Expectations
- Prepare yourself professionally
- First semester schedule overview
- Registration
Degree Requirement Areas

- SEAS major
- UB/SUNY General Education

Undergraduate catalog (http://undergrad-catalog.buffalo.edu/)
SEAS website
Program Flowsheet

Advising Report from HUB
<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
<th>Fall</th>
<th>Spring</th>
<th>Fall</th>
<th>Spring</th>
<th>Fall</th>
<th>Spring</th>
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<td>MTH 141 Calculus 1</td>
<td>MTH 142 Calculus 2</td>
<td>MTH 241 Calculus 3</td>
<td>MTH 306 Diff Eq</td>
<td>MAE 335 Fluid Mech</td>
<td>MAE 311 Machines 1</td>
<td>MAE 451 Des Pro &amp; Meth</td>
<td>MAE 494 Design Proj</td>
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<td>CHE 107 Chem 1</td>
<td>PHY 107 Physics 1</td>
<td>PHY 108 Physics 2</td>
<td>EAS 208 Dynamics</td>
<td>MAE 381 Materials I</td>
<td>MAE 364 Man Process</td>
<td>MAE 336 Heat Transfer</td>
<td>MAE 337 Lab</td>
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<td>EAS 230 Eng Computation</td>
<td>EAS 207 Statics</td>
<td>EE 200 or EE 202</td>
<td>MAE 376 App for MAE</td>
<td>CL1 Gen Ed</td>
<td>1 Gen Ed</td>
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<td>MAE 202 Eng Impact</td>
<td>MAE 204 Thermo</td>
<td>MAE 377 Prod Design CAE</td>
<td>MAE 385 Eng Mat Lab</td>
<td>100+ TE</td>
<td>1 Gen Ed</td>
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<td>EAS 199 UB Seminar</td>
<td>EAS 202 Eng Impact</td>
<td>MAE 277 Intro MAE Prac</td>
<td>EAS 360 STEM Comm</td>
<td>Cap + 1 Gen Ed</td>
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<td>CL1 Gen Ed</td>
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The UB Curriculum

<table>
<thead>
<tr>
<th>Global Path</th>
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<th>Global Path 3</th>
<th>Thematic Path 1</th>
<th>Thematic Path 2</th>
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<td>4 Comm Li 1</td>
<td>1 ENG 105</td>
<td>1 Diversity</td>
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</tbody>
</table>

1 An approved MAE course can satisfy the Path 3 course and a major requirement, as outlined in the credits by term above.

2 An approved course can be taken anywhere in the program and may also satisfy another UB curriculum requirement. The outline above assumes students will satisfy this requirement with another required course.
Advising Report

MECHANICAL ENGINEERING B.S.

Not Satisfied: MECHANICAL ENGINEERING B.S. - 40 Courses Minimum/2.0 GPA Required (2016-Present) (RG-00606)

MECHANICAL ENGINEERING INTENDED PLAN NOTICE

Not Satisfied: You are currently in an Intended Plan. In order to graduate, you must be accepted by your department into an Approved Plan. Contact your Academic Advisor for further information. (RQ-01131)

FRESHMAN FALL

Not Satisfied: FRESHMAN FALL - 3 Courses Required (RQ-01066)

- Calculus 1

Satisfied: Calculus 1 - 1 Course Required (LN-010)

The following courses may be used to satisfy this requirement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
<th>When</th>
<th>Grade</th>
<th>Status</th>
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<tr>
<td>MTH 141LR</td>
<td>College Calculus 1</td>
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<td>MTH 153LLB</td>
<td>Honors Calculus 1</td>
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<td>Fall Only</td>
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</tbody>
</table>

- Chemistry 1

Not Satisfied: Chemistry 1 - 1 Course Required (LN-020)

- Courses: 1 required, 0 taken, 1 needed
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In carrying out their professional obligations, engineers and scientists are guided by fundamental ethical canons and rules of practice. The UB Engineering community is guided by the following principles.

UB Engineers and Applied Scientists:

- Act with honesty, integrity and fairness
- Show respect for others
- Accept responsibility
- Give credit where credit is due
- Serve the larger community
- Take pride in being a part of UB Engineering
Admission to SEAS

- Applies to intended engineering and computer science majors
- Please visit, https://www.eng.buffalo.edu/undergrad/admissions/current

_Criterion 1:_ Completion of four required core courses with grades of C– or better and a combined core course grade point average of at least 2.5. Students are permitted to repeat at most one core course one time. An ‘R’ (resign) grade does not count as a repeat.
  - Engineering Core: Calculus I, Calculus II, Chemistry I, and Physics I
  - Computer Science Core: Calculus I, Intro to CS I, Intro to CS II, and Discrete Structures

_Criterion 2:_ The minimum overall cumulative GPA required for the major. The GPAs required for admission vary by academic year and requested major.
Periodic Review of Intended Majors

- Applies to intended engineering and computer science majors

- The School of Engineering and Applied Sciences (SEAS) periodically reviews the academic progress of all students

- For intended majors, this review results in one of the following outcomes:
  - If the student is admissible to one or more SEAS programs, then he/she will be invited to join SEAS as an approved major
  - If the student is not currently admissible, but is making progress towards completing the core and could be admissible in the future, then he/she will remain in the intended engineering or computer science major
  - If the analysis reveals that the student is not currently admissible and will not be in the future, then he/she will be dropped from the SEAS intended major and placed in the university’s undecided major
  - If the student passes on opportunities to enroll in core courses, then he/she will be dropped from the SEAS intended major and placed in the university’s undecided major
Important Academic Regulations

- UB monitors overall GPA
- SEAS monitors technical GPA (approved majors only)
- If your cumulative or semester technical GPA is less than 2.0, you will be placed on academic probation
- If your semester technical GPA is less than 2.0 and your cumulative technical GPA falls below 1.4 or drops below 2.0 while on academic probation, you will be dismissed from SEAS
- A technical GPA of 2.0 or higher is required to graduate
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Professional Development Blueprint
A career preparation guide for undergraduate students in the School of Engineering and Applied Sciences

1ST YEAR
Explore the credentials and specializations of faculty members or industry professionals.
Explore engineering clubs and attend general meetings for clubs that interest you.
Evaluate your interests, values, and skills by taking the MyPlan assessment and meet with a Career Counselor to discuss your specific results.
Research study abroad opportunities.

2ND YEAR
Review research articles on topics of interest to become more familiar with contributors to the field and more versed in digesting academic writing.
Observe a MS thesis or PhD dissertation defense presentation.
Attend the Celebration of Academic Excellence to explore research and creative works by UB peers.
Explore entrepreneurship resources like The Innovation Hub.

3RD YEAR
Explore graduate schools and faculty research initiatives to prepare for campus visits and prepare for GRE, LSAT, or MCAT exams if necessary.
Attend research seminars to keep abreast of current research in your discipline.
Attend the spring Graduate Research Poster Competition.
Research requirements for careers of interest and identify opportunities to fill skills gaps.

4TH OR FINAL YEAR
Explore considerations such as the cost of living, job market, and average salary in geographic areas of interest as you apply for jobs or graduate schools.
Attend technical society meetings to network with professionals in your field.
Join groups on LinkedIn reflecting specific careers or topics of interest within your discipline.
After graduation, stay in touch with UB through UB Connect and the Engineering Alumni

Connections
Sign up for Engineering Small Groups for academic support in core curriculum courses.
Participate in Saturdays of Service to serve your community and network with UB students and staff.
Attend the spring Senior Design Expo to engage with students presenting their capstone design projects.

Explore
Participate in a Life and Learning networking workshop.
Register for SEmma, a professional networking and shadowing opportunity in the Buffalo or NYC regions.
Research professional technical societies related to your discipline and carry out informational interviews with members of the organizations to learn more.

Experience
Participate in engineering internships, short-term extra-curricular projects completed in groups.
Engage in a leadership or communication workshop as part of the Life and Learning series.
Apply for research opportunities through REU and CURCA.
Run for an executive board position with an engineering club for junior year.
Find an internship or co-op by participating in the STEM UP job and internship fair in the fall.

Career Fundamentals
Learn about professional etiquette for writing emails and dressing to impress.
Participate in a time management workshop as part of the Life and Learning series.
Create a resume and set up a student profile on Bullseye, an interactive job and internship resource.
Observe the fall STEM UP job and internship fair to prepare for active participation the following year.

Attend a LinkedIn workshop through the Life and Learning series.
Attend a job and internship search strategy workshop as part of the Life and Learning series.
Make an appointment at Career Services to have your resume, cover letter, and LinkedIn profile reviewed prior to applying for an internship.

Polish your interview skills by doing a practice interview session with Career Services.
Update your resume as you master new skills, projects, and experiences.
Learn about the requirements for Professional Engineer (P.E.) License.

Search for job opportunities by engaging with employers at the fall STEM UP job and internship fair.
Apply to graduate schools and/or graduate fellowships.
Attend a UB salary negotiation workshop.
Register to take the Fundamentals of Engineering Exam.
Complete the First Destination Survey in the spring.

http://engineering.buffalo.edu/home/academics/beyond/professionalism/blueprint.html
Connecting the Classroom to the Real World

Our Experiential Learning Programs help students develop professionalism and a practical perspective by connecting the classroom to the real world.

The experiential learning continuum encourages students to "engineer today" in addition to attending class. Continuous, experiential learning enlarges students' technical competence and prepares them for their future careers.

Programs

Tinkering
Tinkering is the first step in the ELP continuum. Students pursue self-led, hands-on practice as a precursor to being involved in more significant activities.
Student Professional Societies

- American Institute of Aeronautics & Astronautics
- American Institute of Chemical Engineers
- American Society of Civil Engineers
- American Society of Mechanical Engineers
- Institute of Electrical and Electronic Engineers
- Institute of Industrial Engineers
- National Society of Black Engineers
- National Society of Professional Engineers
- Society of Automotive Engineers
- Society of Hispanic Professional Engineers
- Society of Manufacturing Engineers
- Society of Women Engineers
Orientation Outline

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- **First semester schedule overview**
- Registration
Your 1st semester schedule

- UB Seminar - EAS 199 or CSE 199
- Chemistry requirement and/or Computer Programming requirement (CEN and CS)
- Math Requirement
- UB Curriculum (General Education) Communication Literacy 1, Pathway requirement, or ESL Requirement

Total Credits: 14-18
EAS 199 (Principles), Sections A, B, C or D

- Required for all first-year engineering majors directly admitted to SEAS (except computer engineers/scientists)
- Seminars meet Mondays, Wednesdays, Fridays at noon
- Project-based class that teaches how to “think like an engineer” on real world problems
  - Alternative energy theme
  - Engineering principles and analysis
  - Hands-on project
  - Interaction with engineering professionals
- Professional Development
  - Career Exploration
  - Academic Transition

We do not accept Project Lead the Way credit for this course requirement.
EAS 199 (Principles) NOTE: First lecture class at 12 noon on Monday, August 28th will take place in the Main Stage Theatre in the Center for the Arts, instead of your normally assigned classroom.

EAS 199 (Principles) Labs meet the first week of classes, beginning Monday August 28.
EAS 199 (Challenges), Sections I, J, K, or L

- **Recommended for all first year intended engineering majors (except computer engineers/scientists)**
- Seminar times vary
- Students with an interest in engineering explore the engineering disciplines, and characteristics of good engineers:
  - Technical competence (technical knowledge, problem-solving skills, creativity)
  - Interpersonal skills (strong technical communication, effective teamwork)
  - Work ethic (attention to detail, diligence, persistence);
  - Moral standards: honesty, integrity.
- This exploration will be facilitated through team projects, individual assignments and a professional development and career planning portfolio.

We do not accept Project Lead the Way credit for this course requirement.
EAS 199 (Challenges) NOTE: First lecture class meets in your normally assigned classroom.

EAS 199 (Challenges) Labs meet the first week of classes, beginning Monday August 28.
CSE 199 - How the Internet Works: Fall Semester

> **Required** for all directly admitted first-year computer engineering (CEN) and computer science (CS) majors
> **Recommended** for all intended first-year CEN and CS majors
> Provides an overview of how the Internet works by describing everything required to answer a single search query
> Reviews the Internet’s past and future, policy challenges, and societal implications
> Familiarity with the web and access to a personal computer are assumed, but no technical background is required
Additional 1st Semester CSE Courses

> **CSE 115 Intro to Computer Science for Majors 1 (4 cr)**

Required for Computer Science and Computer Engineering majors

Provides the fundamentals of the field to computer science and computer engineering majors, introducing students to algorithm design and implementation in a modern, high-level programming language. Emphasizes problem solving by abstraction.

**Prerequisite:** No previous programming experience required. Pre-calculus (MTH 115 or ULC 148) or appropriate math placement test scores or co-requisite of Calculus 1 (MTH 121 or MTH 131 or MTH 141).

> **CSE 111 Great Ideas in Computer Science (4 cr)**

The Internet has revolutionized our lives and has impacted how we carry out daily tasks. This course will use web technologies, and basic programming, as a tool to compute and convey solutions for data-rich problems. Basic algorithmic techniques will be used to perform quantitative analysis of data. Results will be presented using web technologies.

**Prerequisite:** No previous programming experience required. For students not mathematically prepared to start in CSE115.
CHE 100 Introduction to Chemistry (4 cr)
Helps prepare students for General Chemistry

CHE 105 Honors Chemistry I (5 cr)
For students who are interested in majoring in a chemistry-related science.
(satisfies the CHE 107 requirement)

CHE 107 General Chemistry I for Engineers (4 cr)
As indicated on the FAQ:

CHE 107 has a lecture, recitation, and a lab. Attendance at all components is required. Although the room locations for the lab component may be listed in your schedule as “Nsc Arr” (section ID ends with an “8”), a particular lab room will eventually be listed in your schedule.

A-Level exam chart:
http://registrar.buffalo.edu/tc/pdfs/GCEchart.pdf
(CHE 101 will satisfy CHE 107; CHE 102 will satisfy CHE 108)
PHY 107 General Physics I (4 cr):

A calculus-based introductory course primarily for chemistry, engineering, and physics majors. Covers kinematics, Newton’s laws, energy, momentum, rotational motion, and oscillations.

Normally taken in spring term, unless majoring in engineering physics.

Engineering physics majors often take PHY 107 in the fall semester along with CHE 107, EAS 199, MTH 141, and one gen ed.

Computer Science majors should wait until sophomore year to begin science requirement.

A-Level Physics is not PHY 107; see the chart at http://registrar.buffalo.edu/tc/pdfs/GCEchart.pdf
1st Semester Mathematics

- ULC 147 Intermediate Algebra (4 cr)
  Helps prepare students for ULC 148
- ULC 148 Intermediate Algebra and Trigonometry (4 cr)
  Reviews precalculus algebra and trigonometry, emphasizing functions
- MTH 141 Calculus I (4 cr) or (MTH 121 Survey of Calc I if CS BA)
- MTH 142 Calculus II (4 cr) or (MTH 122 Survey of Calc II if CS BA)
  For students with transfer or AP credit for Calculus I
- MTH 241 Calculus III or MTH 306 Diff Equations (4 cr)
  For students with credit for Calculus I and II

A-Level exam chart:
http://registrar.buffalo.edu/tc/pdfs/GCEchart.pdf

Web-based Are You Ready quiz/reviews at:
http://www.math.buffalo.edu/rur_index.html
1st Semester Mathematics: ALEKS

- Assessment and Learning in Knowledge Spaces (ALEKS): Math Placement Assessment
- UB requires an ALEKS PPL Assessment to determine readiness of any student enrolled in MTH 121, 141, 131
  - Web-based exam
  - About 30 questions
  - Average completion time is 90-minutes
  - You must achieve a score of 76 (out of 100) or better to demonstrate your readiness for MTH 141 (or 61 for MTH 121 and 131)
  - Three attempts are allowed

**DEADLINE:** All international students must complete the ALEKS assessment by **Friday, September 1** and obtain the required score of 76 or better to remain registered in MTH 141 (or 61 to remain in MTH 121/131)

http://www.buffalo.edu/cas/math/ug/math-help/aleks.html
# UB Curriculum Requirements:

<table>
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<tr>
<th>Requirement</th>
<th>Course(s)</th>
<th>Credits</th>
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<tbody>
<tr>
<td>UB Seminar</td>
<td>EAS 199, CSE 199, or XXX 199</td>
<td>3 credits</td>
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<tr>
<td>Communication Literacy</td>
<td>ENG 105 and EAS 360</td>
<td>4-7 credits</td>
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<tr>
<td>Math and Quantitative Reasoning</td>
<td>SEAS students satisfy this requirement with MTH 141 (CS BA students may use MTH 121/MTH 131)</td>
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<tr>
<td>Scientific Literacy and Inquiry</td>
<td>Engineering majors satisfy this requirement with PHY 107 and CHE 107. CS students must complete at least 7 science credits, including a lab.</td>
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<tr>
<td>Diversity Learning</td>
<td>One course focusing on domestic diversity</td>
<td>3 credits</td>
</tr>
<tr>
<td>Thematic Pathway</td>
<td>Three courses in a Thematic area</td>
<td>9 credits minimum</td>
</tr>
<tr>
<td>Global Pathway</td>
<td>Two or three courses in a Global area</td>
<td>9 credits minimum</td>
</tr>
<tr>
<td>UB Capstone</td>
<td>Culminating UB Curriculum course</td>
<td>1 credit</td>
</tr>
</tbody>
</table>


Placement in English classes is based on SAT, ACT, TOEFL, and/or IELTS scores.

Students who score high on TOEFL and IELTS place into ENG 105, the UBC Communication Literacy 1 requirement.

Some students are advised to develop their English language skills by taking ENG 100, a preparatory course, prior to ENG 105.

Conditionally admitted students take ESL 411 and ENG 100 in the first semester, along with a UB Seminar and either Math, Chemistry, or Computer Science.

http://advising.buffalo.edu/advisors/newstudentreg/pdfs/TOEFL_IELTS_Placement.pdf
Students take both a **Thematic** and a **Global** Pathway.

Each Pathway requires a minimum of nine credit hours of study.

The Pathways connect classes by theme or concept, allowing you to pursue ideas across a broad range of disciplines, methodologies, and modes of experience.

The Pathways invite you to approach learning as a continuum, and to actively make connections between classes by drawing various strands together to create a larger whole.
How will I know if I need to take a Pathway course this fall?

- Some students are advised to take a Pathway course in their first semester.
- The decision is based upon major, first semester load, and other factors.
- Some first year students complete a significant amount of AP, Transfer, A-Level, or other college credit prior to starting UB this fall. This credit can impact your need for a Pathway course, regardless of major.
- Students who need to register for a fall pathway course will follow me to a computer lab when finished with this session to receive further instruction.
Visit the SEAS Thematic and Global Pathways Page
Start here for guidance on how to select pathways that will satisfy the required UB Areas and the Diversity Requirement.

Watch the Pathways Tutorial Video

Designate pathway selections on Pathfinder and save to HUB

Once you’ve selected the Pathway class that you wish to add to your fall schedule, you must register for the class using the HUB Student Center. View the HUB Registration and Schedule Builder Tutorial
Your 1\textsuperscript{st} semester schedule

- UB Seminar - EAS 199 or CSE 199 (3 cr)
- Chemistry requirement and/or Computer Programming requirement (CEN and CS) (4-8 cr)
- Math Requirement (4 cr)
- UB Curriculum (General Education) Communication Literacy 1, Pathway requirement, or ESL Requirement (3-7 cr)

Total Credits: 14-18

- 12 credits (minimum) are necessary to be a full-time student; full-time students are billed a full-time rate, not a per-credit rate, so tuition charges do not accrue for additional credits beyond 12
- 15 credits (minimum) are necessary to be eligible for dean’s list: https://catalog.buffalo.edu/policies/deans_list.html
- 15-18 credits are typically necessary to graduate in 4 years with an SEAS major
- 19 credits is the maximum permitted per semester without special permission; first semester non-honors engineering students are not granted special permission
FAQ: I want to change my major. How do I do this and do I have to change my schedule?

If you are changing between two engineering majors and neither of these is computer engineering or engineering physics, you will not need to change your first-semester schedule.

However, if you are switching to or from **Computer Science, Computer Engineering, or Engineering Physics**, your requirements may change and you should discuss this with an advisor.

> If you are already in an SEAS major, to have a change in your major processed in the HUB Submit the Major Change form online

http://engineering.buffalo.edu/home/academics/undergrad/admissions/change.html

> If you are in some major other than SEAS, to request a change in your major to SEAS in the HHUB, submit our supplemental application:

http://engineering.buffalo.edu/home/academics/undergrad/admissions/current.html

And notify International Student & Scholar Services in 210 Talbert Hall after receiving email notice of change (given your VISA requirements)
Important Dates for Fall 2017

> Classes Begin: Monday, August 28

> Last Day to Add/Drop: Tuesday, September 5, 11:59 pm EST
  (changes will not appear on transcript; no financial liability)

  For advisement assistance following today, go to 410 Bonner Hall; we
  see all students on a walk-in basis during add/drop (no appointments
  required)

> Last Day to Resign: Friday, November 10, 11:59 pm EST
  (Grade of “R” permanently on transcript; affects attempted credits/financial aid;
  full financial liability; several academic implications)

> Last Day of Classes: Friday, December 8

> Final Exams: Monday, Dec. 11 - Monday, Dec. 18
Next: Registration!

> Students who are already registered for all classes as advised are done with the academic portion of your orientation.

> Students who are not registered at all yet will follow Ronald to 410 Bonner Hall for advisement/registration assistance.

> Students who are partially registered and who need to add a Pathway or a UB Seminar will follow me to 201 Capen Computer Lab (inside the Library).