Outline:

> UB and School of Engineering & Applied Sciences (SEAS)

Dr. Jeffrey Errington
Associate Dean for Undergraduate Education

Dr. Christine Human
Associate Dean for Accreditation & Student Affairs

> Academic Advisement Overview

Ms. Kate Doran
Academic Advisor
UB and SEAS

> Doing business at UB
> Policies and expectations

http://www.eng.buffalo.edu/undergrad
What is your most common form of electronic communication?

1. Talking on cell phone
2. Texting
3. Facebook, Twitter
4. Email
5. Other
Communication

> Email

» Your UB email account - Check it, Use it!

> Listservs

Greater Buffalo IT/Dev Day

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

Subject: 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 are bringing the Greater Buffalo IT/Dev Day to Daemen College in Amherst on July 21st. This is a FREE event!
Email Etiquette

- Include informative subject
- Use proper greeting and salutation
- Include all necessary information
- Check grammar and spelling
- Ask yourself whether the information you are asking for is readily available
- Reply in a timely fashion
Welcome to Blackboard on UBlearns

Login

Usability and language options are located at the top corners of the screen.

Accessibility | Privacy Policy
The Syllabus

- A road map for the course
- Often includes important dates (exams)
- Should include learning outcomes, schedule, grading criteria and academic integrity information
- Ignore it at your own risk.
UB and SEAS

> Doing business at UB
> Policies and expectations

http://www.eng.buffalo.edu/undergrad
The ABC’S of Grading

- Grading on a 4 point scale:  A = 4, A- = 3.67, B+ = 3.33, B= 3.0, ...... F = 0
- Quality Points = grade points x credit hours
- Grade Point Average = total quality points/total credit hours

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points</th>
<th>Hrs</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>3.00</td>
<td>3</td>
<td>9.00</td>
</tr>
<tr>
<td>B+</td>
<td>3.33</td>
<td>4</td>
<td>13.32</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
<td>4</td>
<td>8.00</td>
</tr>
<tr>
<td>C-</td>
<td>1.67</td>
<td>4</td>
<td>6.68</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
<td>15</td>
<td>37.00</td>
</tr>
</tbody>
</table>

GPA = 37/15 = 2.47
Why was I not admitted directly into the School of Engineering and Applied Sciences?

- SAT < 1180 (or ACT equivalent)
- Holistic review of high school performance
- NYS residents: Low math and science Regents
An intended major is permitted to take general education, math, science, and 100- and 200-level SEAS classes at UB.

Provides you with the opportunity to demonstrate that you can be successful in your intended major.

You are advised by the SEAS Office of Undergraduate Education.

You will typically take a math and chemistry course your first semester along with general education courses.

Intended computer science or computer engineering students may be taking a math and introductory computer science course.
Admission to engineering or computer science as an approved major requires the following:

- Matriculated student with academic good standing at the University at Buffalo.
- 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. A ‘R’ (resign) grade does not count as a repeat.
- The minimum overall cumulative GPA required for the major. The GPAs required for admission vary by academic year and requested major.
# Core Courses

## Engineering Programs

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus 1 (MTH 141 or MTH 153)</td>
</tr>
<tr>
<td>Calculus 2 (MTH 142 or MTH 154)</td>
</tr>
<tr>
<td>General Chemistry 1 (CHE 101, CHE 105, or CHE 107)</td>
</tr>
<tr>
<td>General Physics 1 (PHY 107 or PHY 117)</td>
</tr>
</tbody>
</table>

## Computer Science Programs

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus 1 (MTH 141 or MTH 153; B.A. applicants may complete MTH 121 or MTH 131)</td>
</tr>
<tr>
<td>Intro to Computer Science for Majors 1 (CSE 115)</td>
</tr>
<tr>
<td>Intro to Computer Science for Majors 2 (CSE 116)</td>
</tr>
<tr>
<td>Discrete Structures (CSE 191 or MTH 191)</td>
</tr>
</tbody>
</table>
## Overall GPA Requirements

<table>
<thead>
<tr>
<th>Major</th>
<th>Overall GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace and Mechanical Engineering</td>
<td>2.8</td>
</tr>
<tr>
<td>Biomedical, Chemical, Civil, Computer, Electrical, Environmental, and Industrial Engineering; Computer Science; Engineering Physics</td>
<td>2.5</td>
</tr>
</tbody>
</table>
Historically 35-40% of intended majors join SEAS.

There are many factors that influence this statistic:
- Some intended majors decide to pursue another major.
- Some intended majors do not meet the admissions requirements.

What is your plan B?
Continue to Research Engineering

- Learn more about engineering
  - Career/occupational research
  - Job shadowing and field observations
  - Talk to engineering majors about experiences

- Campus Involvement
  - Student Association Engineering Council - 17 clubs

- Keep an Open Mind!
  - Consider alternatives if engineering is not right fit for you
  - Explore 100+ other majors UB has to offer
SEAS Majors

- Aerospace Engineering
- Bioinformatics
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Science
- Computer Engineering
- Electrical Engineering
- Engineering Physics
- Environmental Engineering
- Industrial Engineering
- Mechanical Engineering

You may have declared a major, or not.

EAS 199 introduces the engineering professions

You can learn more by talking with advisors, faculty, and students and from the SEAS website: http://engineering.buffalo.edu/

More about careers can be found at Career Cornerstone Center: http://www.careercornerstone.org/
Sample Alternatives to Engineering

- Architecture
- Art
- Environmental Design
- Geography
- Geology
- Mathematics
- Natural Sciences (Biology, Chemistry, Physics, etc.)
- Social Sciences or Humanities Majors
- Lots of other options
Successful Students...

> Attend all classes

> Utilize campus resources
  > Tutoring and support services

> Regularly meet with faculty with questions regarding course content/assignments
  > Office Hours

> Limit work hours
How much cheating did you observe in high school?

1. None
2. Occasional
3. Frequent
4. Virtually every class

“On my honor I have neither given nor received aid in completing this assignment.”
Very important in university environment, sanctions for violations can be severe.

Breaches of academic integrity include:

- cheating
- plagiarism
- unauthorized collusion on homework, projects, and exams
- unauthorized possession of exams, papers, or other materials

http://academicintegrity.buffalo.edu
Engineering Code of Professional Conduct

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
UB and School of Engineering & Applied Sciences (SEAS)

Dr. Jeffrey Errington
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Academic Advisement Overview and Advisement Tools

Ms. Kate Doran
Academic Advisor
> Academic Advisement Overview
> Advisement Tools
Who is my advisor?

- For freshman and sophomore year requirements, general education, and degree audit:
  410 Bonner Hall
  (716) 645-2775
  ubengineer@buffalo.edu
  http://www.eng.buffalo.edu/undergrad/

- We do not assign you a specific advisor; you have access to all of us!

- If you would like to consistently see one particular advisor, all you need to do is request to see that advisor each time you make an appointment.

- During junior and senior years, advisement primarily comes from department faculty.
Finish in 4: [http://advising.buffalo.edu/fif/](http://advising.buffalo.edu/fif/)

What is Finish in 4?
- An initiative to encourage students to complete their undergraduate degree in 4 years
- A pledge between the student and the university
- A UB student’s roadmap to success

Benefits to students:
- A detailed 8 semester plan of classes
- Additional sections of courses/added seats
- Close monitoring and assistance from an academic advisor
- Financial Aid well-checks
- A Personal Librarian
- Career Planning

If you did not select the Finish in 4 Pledge option on the Orientation Data Form you may still do so. Please contact the FI4 staff at [vpue-fif@buffalo.edu](mailto:vpue-fif@buffalo.edu) and they will provide you a link to an electronic enrollment form. The deadline to "Take the Pledge" is the last day of add/drop: Tuesday, September 6, 2016.
SEAS Finish in 4 Plan

Finish in 4 Curricular Plan  
Mechanical Engineering, B.S.  

A Finish in 4 Curricular Plan provides a roadmap for completing this academic program and the UB Curriculum in four years. Your actual plan may vary depending on point of entry to the university, course placement and/or waivers based on standardized test scores, earned alternative credit and/or college transfer credit.

All students are encouraged to use this plan in conjunction with other academic planning resources such as your academic advisor, the hUB Academic Advisement Report, My Planner and Path Finder tool.

In addition to following this course roadmap, all other admission and academic requirements of this major as listed in the Undergraduate Catalog must be met in order to successfully complete this degree.

<table>
<thead>
<tr>
<th>Freshman Year — Fall Semester</th>
<th>Course</th>
<th>Category</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAS 199</td>
<td>M/UBS</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHE 107</td>
<td>M/SU 1</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MTH 141</td>
<td>M/MQR</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>ENG 105</td>
<td>CL1</td>
<td>4</td>
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</table>

Total Credits: 15

<table>
<thead>
<tr>
<th>Freshman Year — Spring Semester</th>
<th>Course</th>
<th>Category</th>
<th>Credit</th>
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<tbody>
<tr>
<td>MAE 177</td>
<td>M</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>PHY 107</td>
<td>M/SU 2</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MTH 142</td>
<td>M</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EAS 202</td>
<td>M</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>EAS 230</td>
<td>M</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Thematic Pathway</td>
<td>TP1</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 16

<table>
<thead>
<tr>
<th>Sophomore Year — Fall Semester</th>
<th>Course</th>
<th>Category</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAS 207</td>
<td>M</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAE 204</td>
<td>M</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MTH 241</td>
<td>M</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHY 108</td>
<td>M</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHY 158</td>
<td>M</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MAE 277</td>
<td>M</td>
<td>3</td>
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</tbody>
</table>

Total Credits: 18

<table>
<thead>
<tr>
<th>Sophomore Year — Spring Semester</th>
<th>Course</th>
<th>Category</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 200</td>
<td>M</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EAS 208</td>
<td>M</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EAS 209</td>
<td>M</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MTH 306</td>
<td>M</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Global Pathway</td>
<td>GP1</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 16
Students must follow course prerequisite/co-requisite sequences.

Electronic flowsheets provide additional details.

https://www.eng.buffalo.edu/undergrad/advisement/flowsheets/
If you have not received a passing grade in a prerequisite class, do not proceed!

It is possible that you will be dropped from a course by a department checking prerequisites, but if this doesn’t happen, do yourself a favor and drop the class.

Prerequisites are established because the body of knowledge in a prerequisite class is considered essential for success in the subsequent class.

SEAS will keep an eye on select classes, but do not wait for us to drop you...seek advisement, if necessary, and change your schedule when the best course opportunities exist!
Some courses are “limited enrollment (impacted) courses”

You have one attempt to successfully complete these courses during an academic year.

Students who have previously attempted an impacted course and received a grade other than an Administrative Withdrawal (W) may not register for it again during the fall or spring semester (unless surplus seats are open the first week of classes or you submit a successful petition by the third week of the previous term; must be for same type of term in which you initially attempted the course).

Resigns in such courses are considered attempts for this policy.

Note: If you receive a failing grade in one of these impacted courses, the only way to improve your GPA will be to repeat that course at UB, in the summer!
Course Enrollment Control Policy

The following courses have been designated as controlled enrollment courses for the 2016-2017 academic year:

XXX 198 or XXX 199 UB Seminars
BIO 200 Evolutionary Biology
BIO 201 Cell Biology
CHE 101 General Chemistry
CHE 102 General Chemistry
CHE 201 Organic Chemistry
CHE 202 Organic Chemistry
COM 101 Principles of Communication
ECO 181 Intro to Macroeconomics
ECO 182 Intro to Microeconomics
ENG 101 Writing 1
ENG 201 Advanced Writing 1
MTH 121 Survey of Calculus 1
MTH 131 Math Analysis for Management
MTH 141 College Calculus 1
MTH 142 College Calculus 2
MTH 241 College Calculus 3
PHY 101 College Physics
PSC 101 Intro to American Politics
PSY 101 Introductory Psychology
PSY 207 Psychological Statistics
UGC 111 World Civilization 1
UGC 112 World Civilization 2

http://undergrad-catalog.buffalo.edu/policies/grading/repeat.shtml
As a condition of enrollment, students are responsible for reviewing, understanding, and abiding by the university’s regulations, procedures, requirements, and deadlines as described in official publications, including the university’s undergraduate catalog, UB Web sites, and official university e-mail communications.

Avoid a future registration hold, affirm in advance, see: [http://www.student-affairs.buffalo.edu/judicial/rulereg.php](http://www.student-affairs.buffalo.edu/judicial/rulereg.php)

Asserting a lack of knowledge of university regulations will not be accepted as a basis for an exception to these regulations.
SEAS Academic Advisement

> Academic Advisement Overview
> Advisement Tools
Undergraduate Degree & Course Catalog

2016 - 2017

Search Undergraduate Degree & Course Catalog

Step by Step Guide: http://advising.buffalo.edu/help/catalog.php
HUB Student Center through MyUB
See Student Center HOW TOs:
http://www.buffalo.edu/hub/students/howto.php
To enroll (register) for classes you will first have to go to the HUB Student Center. The Student Center is a self-service page that provides navigation to tools and information that is important to you. To reach the Student Center click the HUB Student Center tab from MyUB.

Click the HUB Student Center tab.
UB Curriculum Tools

UB Curriculum Overview:

How to Register for Classes:

Eportfolio:

Pick your Pathway:
HUB Student Center: Advisement Report

A tool that helps students and advisors track degree requirements (University Requirements including General Education, and Major Requirements).

Different than UB transcript because it also includes Non-UB work (AP credit, transfer courses, etc.).
Academic Advisement Report

University at Buffalo | Undergraduate

This report last generated on 07/19/2010 2:45PM

- [collapse all]
- [expand all]
- [view report as pdf]

- Taken
- In Progress
- Planned

- COURSE HISTORY
- UNIVERSITY REQUIREMENTS FOR GRADUATION
- UB CURRICULUM
- SEAS REQUIREMENTS
- COURSES NOT ALLOCATED TO MAJOR(S), MINOR(S), OR UB CURRICULUM REQUIREMENTS
- COMPUTER ENGINEERING B.S. ACCEPTANCE CRITERIA
- COMPUTER ENGINEERING B.S.

Return to Report Request  View Report Request Log
http://engineering.buffalo.edu
Welcome

Welcome to our UB Undergraduate Engineering virtual home! Whether you are a current or prospective student, here you will find a wealth of information about our vibrant school.

Increasingly, UB Engineering is becoming the first choice for top students because of our exceptional academic quality, our friendly and supportive community, and our incredible palette of opportunities that will add both breadth and depth to your engineering education. If you explore some of the links from this page, I think you’ll see what I mean.

As a UB engineer, you will be taught by award-winning faculty and live and learn alongside gifted and highly motivated students, just like you. Every day I see our engineering students doing incredible things. If you’re not yet part of the UB Engineering family, I hope you’ll consider joining us.

Jeffrey R. Errington
Professor and Associate Dean
jerring@buffalo.edu

Videos

Engineering Faculty
Faculty Members Igor Jankovic, Ann Bisantz, and Kemper Lewis walk you through their favorite aspects of the UB experience.

Watch Now (4:47)

Engineering Choice
Listen to our students tell you about the reasons they’re glad they chose UB.

http://www.eng.buffalo.edu/undergrad/
Schedule/Dept Overview

Undecided (EAS) and Industrial Engineers (IE): follow Anyssa/Lisa/Franz/Ayenoumou to **NSC 201** (Advisors: Erin MacDiarmid/Jane Sinclair)

Computer Science (CS) and Computer Engineers (CEN): follow Mike/David to **NSC 225** (Advisor: Jaynee Straw)

Biomedical (BE): follow Sean/Eric to **Talbert 115** (Advisor: Terri Miklitsch)

Chemical Engineers (CE): follow Sean/Eric to **Talbert 112** (Advisor: Dalene Aylward)

Civil (CIE) and Environmental Engineers (ENV): **SASEAS stay here/EAS** follow Sebastian to **101 Davis** (Advisor: Jon Bonebrake)

Electrical (EE) and Engineering Physics (EGP): follow Tyree/Samantha to **Knox 14** (Advisor: Dan La Rosa)

Aerospace (ASE) and Mechanical Engineers (ME): **EAS stay here/ SASEAS** follow Boom to **20 Knox** (Advisor: Kerry Collins-Gross)

It’s OK if you aren’t certain which group to proceed into today!
Information presented is consistent, with only minor details added at the end for added interest.