



FIRST SEMESTER GROUP ADVISEMENT

Office of Undergraduate Education

410 Bonner Hall

716.645.2775

ubengineer@buffalo.edu

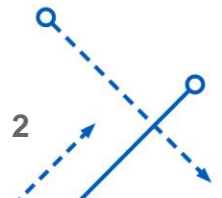


University at Buffalo

School of Engineering and Applied Sciences

Agenda

- **Fall 2017 Semester Reminders**
 - Resignation Deadline/Implications
 - Tutoring and Academic Support Resources
- **SEAS Major Status**
 - Direct Admit vs. Intended
 - Admission Criteria for Intended Majors
 - SEAS Academic Review
- **Spring 2018 Enrollment**
 - Personalized Flowsheet Overview
 - Spring 2018 Course Plan by Major
 - UB Curriculum: Pathway Selection
 - HUB Academic Advisement Report (AAR)
 - Registration Tips and Tricks



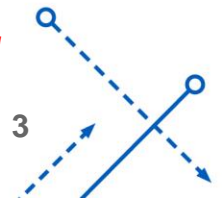
Fall 2017 Semester Reminders: *Resignation*

- Deadline: Friday, November 10th @ 11:59 p.m.
- Academic Implications
 - Delay graduation
 - Off-sequence - see online [flowsheets](#) for prerequisite and corequisite information
- Financial Implications
 - Full time status = 12 credits
 - Federal Financial Aid - Satisfactory Academic Progress (SAP)
 - NYS Financial Aid - TAP, STEM, Excelsior Awards
- Visa Implications (International Students)
- What circumstances would lead to resignation?

Units	Grade
4.000	A
4.000	R
3.000	A
3.000	B-
2.000	A



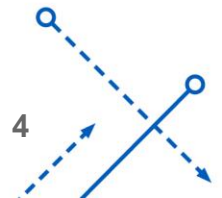
*Students are not permitted to resign EAS 199/CSE 199/any UB Seminar on their own!
Must obtain permission from an advisor prior to 5:00 pm on Nov. 10th*





Fall 2017 Semester Reminders: *Tutoring and Academic Support*

- [Small Group Sessions](#): MTH 141, MTH 142, CHE 107, PHY 107
- [SEAS Tutoring Services](#)
- [The Math Place](#), 211 Baldy Hall
- [Center for Excellence in Writing](#), 209 Baldy Hall
- [English Language Institute](#), 320 Baldy Hall
 - Chat Room
 - Open Listening Lab
- Campus Living's [Academic Success Centers](#):
 - Blake Center, 167 MFAC, Ellicott Complex
 - Jones Center, Clinton Basement, Governors
 - Goodyear Center, 141 Goodyear Hall, South Campus
- [UB Counseling Services](#), 120 Richmond Quad



SEAS Major Status: *Direct-Admit vs. Intended*

- Admission decisions are based on a holistic review of each application, with factors such as an applicant's high school academic performance, standardized test scores, Regents and Common Core Examination scores, personal statements, letters of recommendation, and noncognitive attributes considered.
- First year students deemed to have a high likelihood of success within an engineering or applied science major are placed into the **approved major**.
- When concerns are identified in an applicant's academic history (e.g., low high school average, SAT/ACT score, and/or regents exam scores), the applicant is placed into the **intended major**. Intended engineering and applied science majors are permitted to enroll in math, science, general education, and 100- and 200-level SEAS courses required for the major.

How do I know if I'm Admitted or Intended?

Log on to our SEAS Portal system:

School of Engineering and Applied Sciences > Academics > Undergraduate Education

Academics

> Undergraduate Education
 Degree Programs
 Academic Advisement
 Admissions
 Scholarships, Fellowships and Awards
 First-Year Student Information
 Research Experience
 Enrollment and Graduation Data
 Contact Us

Graduate Education

Beyond the Classroom

Undergraduate Education



We are here to help. The Office of Undergraduate Education provides advisement for all of the departments within the School of Engineering and Applied Sciences.

Apply Now

SEAS Portal Login

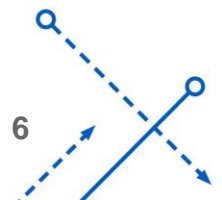
Contact Us

View your Student profile:

Student Profile for Fall 2017

Majors

Academic Unit	Requirement Term
Undergraduate	Fall 2017
Engnr & Appl Sci Bachelor	Fall 2017
Chemical Engineering INT BS	Fall 2017



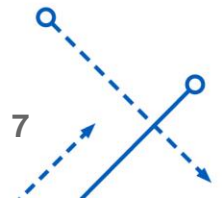
Admissions Criteria for Intended Majors: Core Courses

- Engineering Majors
 - Calculus 1 (MTH 141 or MTH 153)
 - Calculus 2 (MTH 142 or MTH 154)
 - General Chemistry 1 (CHE 101, CHE 105, or CHE 107)
 - General Physics 1 (PHY 107 or PHY 117)
- Computer Science Majors
 - Calculus 1 (MTH 141 or MTH 153; students applying for the B.A. computer science degree may complete MTH 121 or MTH 131)
 - Introduction to Computer Science for Majors 1 (CSE 115)
 - Introduction to Computer Science for Majors 2 (CSE 116)
 - Discrete Structures (CSE 191 or MTH 191)

To gain admission to an Engineering or Computer Science major, students must complete the 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.

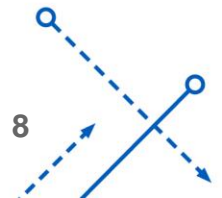
Note: A 'R' (resign) grade does not count as a repeat. Students are also permitted to repeat test and college credit originally earned while attending high school without penalty from this policy.





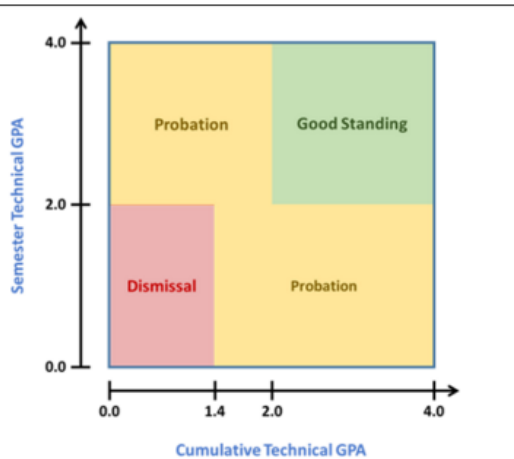
Admissions Criteria for Intended Majors: *GPA Requirements*

- In addition to the 2.5 Core Course GPA, students must meet the Overall GPA:
 - Aerospace, Mechanical, and Computer Engineering; Computer Science: 2.8 GPA
 - All other Engineering majors: 2.5 GPA
- What is included in the Overall GPA?
 - ALL college credit is included in the overall GPA calculation. This includes:
 - Coursework taken at another institution and transferred to UB
 - All UB coursework, including major-related and UB Curriculum Courses
- Does AP, A-Level, or other test credit count toward SEAS admission criteria?
 - This credit can be used to satisfy completion of the core courses, however it is not factored into the core course or overall GPA.

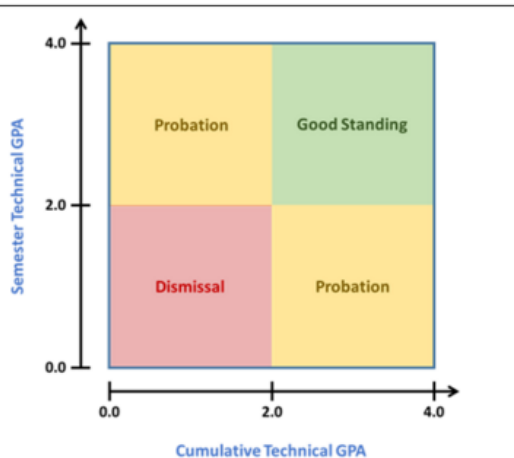


SEAS Academic Review: *Applies to all Admitted SEAS Majors*

When a student begins a semester in **academic good standing**, their academic standing at the end of the semester is determined via the mapping to the right



When a student begins a semester on **academic probation**, their academic standing at the end of the semester is determined via the mapping to the right



- **Good Standing:**
 - Cumulative and Semester Technical GPAs ≥ 2.0
- **Academic Probation:**
 - Semester TGPA < 2.0 /Cumulative TGPA ≥ 1.4
 - Semester TGPA ≥ 2.0 /Cumulative TGPA < 2.0
- **Academic Dismissal:**
 - Semester TGPA < 2.0 /Cumulative TGPA < 1.4
 - Semester and Cumulative TGPAs are < 2.0 while on academic probation
 - Not following the SEAS curriculum for two consecutive semesters

Spring 2018 Enrollment:

Flowsheet Overview

Online Interactive Flowsheets

- Course Sequencing
- Link to Catalog Description and Class Schedule
- Important Advisement Notes
- Flowsheet Directory

Freshmen Flowsheet for Mechanical Engineering BS
(Effective AY 2016-17 to AY 2017-18) 

Freshman		Sophomore		Junior		Senior	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
MTH 141 Calculus 1	MTH 142 Calculus 2	MTH 241 Calculus 3	MTH 306 Differential Equations	MAE 335 Fluid Mechanics	MAE 311 Machines 1	MAE 451 Design Process and Methods	MAE 494 Design Project
CHE 107 Chemistry 1	PHY 107 Physics 1	PHY 108 Physics 2	EAS 208 Dynamics	MAE 340 Dynamic Systems	MAE 364 Manufacturing Processes	MAE 338 MAE Lab II	Applied Math Elective
EAS 199 First-Year Seminar	EAS 230 Engineering Computations	PHY 158 Physics 2 Lab	EAS 209 Mechanics of Solids	MAE 376 Applied Math for MAE	MAE 336 Heat Transfer	MAE Technical Elective	MAE Technical Elective
ENG 105 Communication Literacy 1	MAE 177 Engineering Drawing and CAD	EAS 207 Statics	EE 200 EE Concepts	MAE 377 Product Design: CAE	MAE 334 MAE Lab 1	MAE Technical Elective	Professional/Science Track 2
	EAS 202 Engineering Impact on Society	MAE 204 Thermodynamics	Thematic or Global Pathway Course	EAS 360 STEM Communications	MAE 385 Engineering Materials Lab	Thematic or Global Pathway Course	Thematic or Global Pathway Course
	Thematic or Global Pathway Course	MAE 277 Introduction to Practice		MAE 381 Engineering Materials	Professional/Science Track 1		UBC 399 UB Capstone
15 HOURS	16 HOURS	18 HOURS	16 HOURS	18 HOURS	15 HOURS	14 HOURS	16 HOURS

Place the mouse over a course to highlight the course prerequisite sequence, course prerequisites, course corequisite sequence, course corequisites, course post-corequisites and postrequisite course sequence.

Spring 2018 Enrollment: Flowsheet Overview

Personalized Flowsheets

- Four year course plans updated during advisement meetings in 410 Bonner Hall.
- Semester/Year Notations
 - Fall = 9, Spring = 1, Summer = 6
 - Example: 9/17 = Fall 2017
- Major and Gen Ed Requirements

Name: _____

Person Number: _____ Expected Graduation: _____

Term Admitted to UB: _____ SEAS: _____ Plan/Major: _____

Domestic or International Std/FR or TR: If TR # of Credits at Entry to UB: _____

MECHANICAL ENGINEERING
Intended
UNIVERSITY AT BUFFALO
2016 Curriculum
Finish in 4

Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
4 9/17 MTH 141 Calculus 1	4 1/18 MTH 142 Calculus 2	4 MTH 241 Calculus 3	4 MTH 306 Diff Eq	3 MAE 335 Fluid Mech	3 MAE 311 Machines 1	3 MAE 451 Des Proc & Meth	3 MAE 494 Design Proj
4 9/17 CHE 107 Chem 1	4 1/18 PHY 107 Physics 1	4 PHY 108 Physics 2	3 EAS 208 Dynamics	3 MAE 381 Materials I	3 MAE 364 Man Process	3 MAE TE	3 MAE TE
	1 1/18 MAE 177 Eng Draw	1 PHY 158 Phy 2 Lab	3 EAS 209 Mech. of Sol	3 MAE 340 Dynamic Sys	3 MAE 336 Heat Transfer	3 MAE TE	3 Prof/Sc 2
	3 1/18 EAS 230 Eng Computation	3 EAS 207 Statics	3 EE 200 or EE 202	3 MAE 376 App Mth for MAE	2 MAE 334 MAE Lab I	2 MAE 338 MAE Lab II	3 Appl Mth Elec ***
3 9/17 EAS 199 UB Seminar	1 1/18 EAS 202 Eng Impact	3 MAE 204 Thermo		3 MAE 377 Prod Design:CAE	1 MAE 385 Eng Mat Lab	***EAS 306, CIE 308, MAE 425, MAE 428, MTH 300, MTH 411, MTH 417, or MTH 418	
---OR---							
1 EAS 198 UB Seminar	3 100+ TE	3 MAE 277 Intro MAE Prac		3 EAS 360 STEM Comm	3 Prof/Sc 1	Submit App for Degree	
CL1	1 Gen Ed		1 Gen Ed		1 Gen Ed	Cap + 1 Gen Ed	
15 credits	16 credits	18 credits	16 credits	18 credits	15 credits	14 credits	16 credits

The UB Curriculum

Global Path 1	Global Path 2	Global Path 3 ¹	Thematic Path 1	Thematic Path 2	Thematic Path 3 ¹
3 Global Path 1	3 Global Path 2	3 Global Path 3 ¹	3 Thematic Path 1	3 Thematic Path 2	3 Thematic Path 3 ¹
UB Area:	UB Area:		UB Area:	UB Area:	

UB Areas: Min of 4; 2 per pathway
ARTS SOC SCI
CIV/HIS LANG
HUM

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

Comm Lit 1	UB Capstone	Diversity ²
4 ENG 105	1	3

Global Pathway Topic: _____ Thematic Pathway Topic: _____

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.

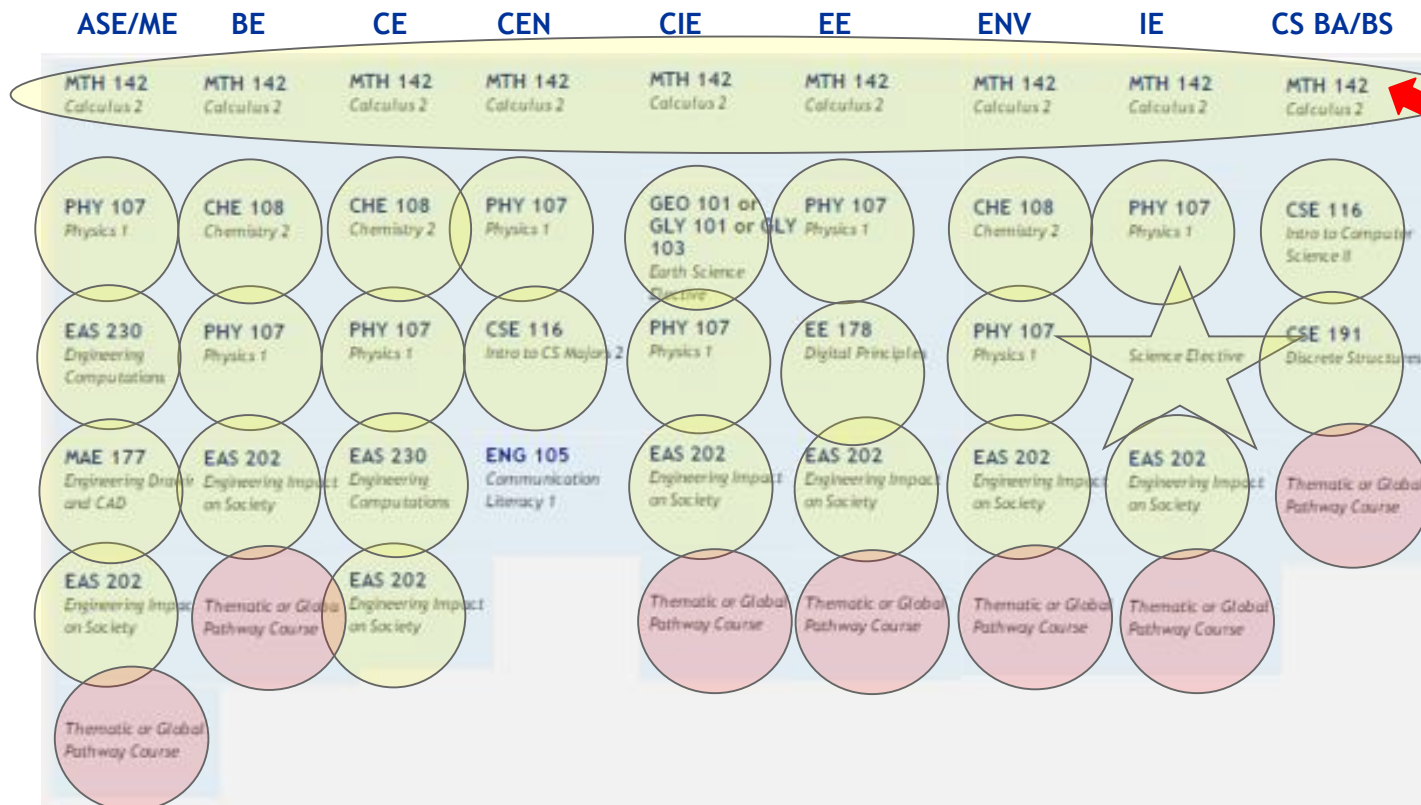
Appointments: _____

Spring 2018 Enrollment: *Course Plan*

Fall	Spring
4 9/17 MTH 141 Calculus 1	4 1/18 MTH 142 Calculus 2
4 9/17 CHE 107 Chem 1	4 1/18 PHY 107 Physics 1
	1 1/18 MAE 177 Eng Draw
	3 1/18 EAS 230 Eng Computation
3 9/17 EAS 199 UB Seminar	1 1/18 EAS 202 Eng Impact

- Courses that are in progress this fall are designated with '9/17.'
- Recommended courses for Spring 2018 registration are designated with '1/18.'

Spring 2018 Enrollment: Second Semester Course Plan by Major



Note: CS BA students can take MTH 122 instead of MTH 142.

UB Curriculum: *Pathways*

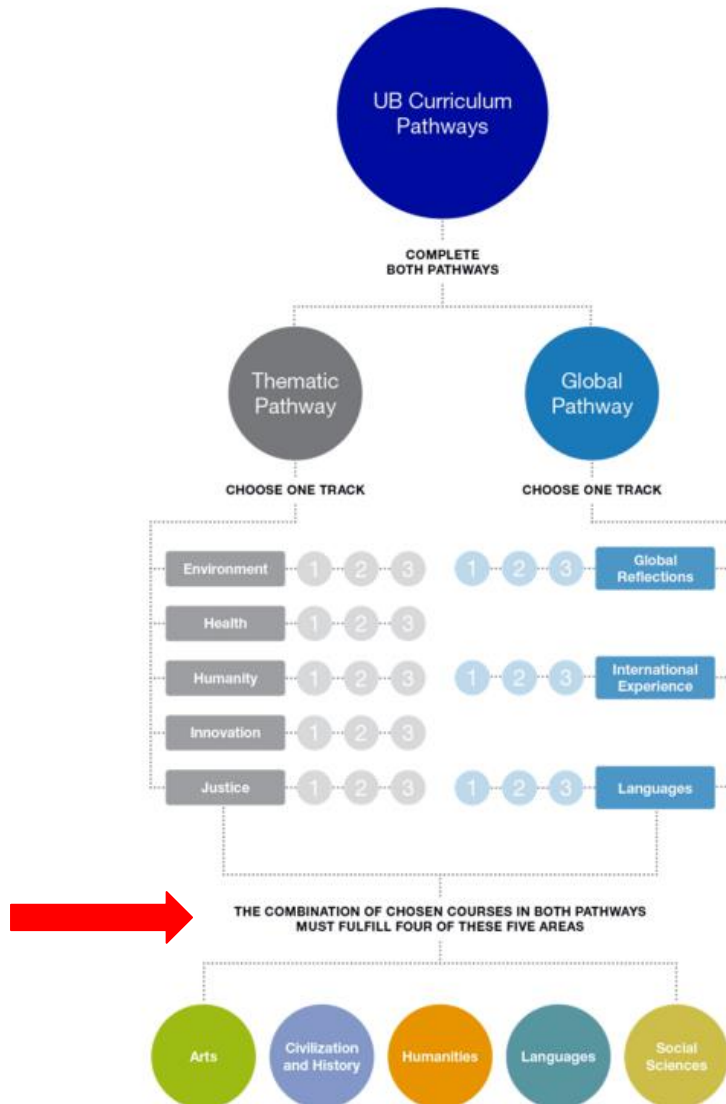
Students take both a **Thematic** and a **Global** Pathway.

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.

Integrative learning of this kind has been shown to improve critical thinking, as well as help students to gain a greater appreciation of complexity and nuance as they encounter the tensions and similarities that exist between disciplines and practical applications in the world.




Pathway Resources

Step 1: Path Finder Tutorial Video for SEAS Majors



Step 2: Visit the SEAS Website for major and course-specific information

 [Undergraduate Education](#) > [Advisement](#) > [Pathways](#) >

Pathways for Engineering and Computer Science Students

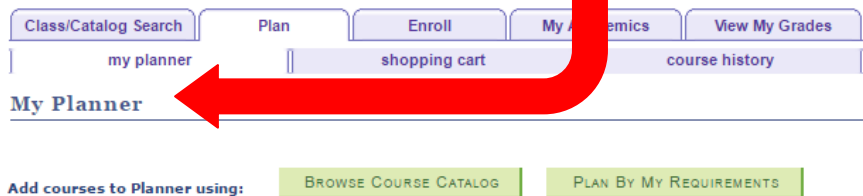


Step 3: Pick your Pathways!

Log on to Path Finder from your Planner Report



Access your Planner via HUB



▼ Thematic Pathway

Not Satisfied: Thematic Pathway - 3 Courses/9 Units Required (LN-010)

Use the [UB Path Finder Tool](#) to choose and view your Thematic Pathway.

- Courses: 3 required, 1 taken, 2 needed



Pathway Requirements

- **Can I use AP/Transfer/other college credit to satisfy pathway requirements?**
 - Yes! Review the [AP equivalency chart](#) to see if you've received credit for any UB courses, and review our transfer course equivalencies on [TAURUS](#).
 - Use the course drop-down menu on the SEAS [Pathways](#) page to see how your credit fits in a pathway.
 - Transfer and test credit that UB has received will appear on the Path Finder tool. If you have this credit and do not see it in HUB or Path Finder, please report it to UB ASAP!
 - AP/Exam credit – College Board, use school code 2925
 - Transfer courses – send official transcript to UB Admissions, 12 Capen Hall (International – 17 Capen Hall)
 - Note: allocate your transfer/test work strategically, as you will need to unite these themes in UBC 399
- **Why do I need to submit my Pathways to HUB?**
 - After you select all of your pathway courses, you will need to save your selections to HUB.
 - Your Pathway selections will be added to your official HUB record and available for you to include in your Planner (assignment at a later date)
 - You must submit your selections to HUB if you receive any amount of NYS STEM, TAP, or Excelsior financial aid so that UB can certify your eligibility for these awards
 - These courses must be submitted to HUB in order to certify completion of UB Curriculum requirements for degree conferral
 - Printing your selection does not save your selection in the Path Finder tool. The only way to save your selection is to click on the "Save to HUB" button in the upper right-hand corner.

Pathway Advisement

Select your Pathways strategically if you want to graduate in 4 years!

- Course 3 in each pathway should be a major requirement
- Check for pre/co requisites, including major reserves
- Include a Diversity class in one of your pathways

The UB Curriculum

3			3			3			3			3			3		
Global Path 1			Global Path 2			Global Path 3 ¹			Thematic Path 1			Thematic Path 2			Thematic Path 3 ¹		
PHI 105			GEO 333			MAE 277			ARC 121			ARC 211			MAE 311		
UB Area:			UB Area:			UB Area:			UB Area:			UB Area:			UB Area:		

UB Areas: Min of 4; 2 per pathway

ARTS	ARC 121	SOC SCI	GEO 333
CIV/HIS	ARC 211	LANG	
HUM	PHI 105		

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

4			1			3		
Comm Lit 1			UB Capstone			Diversity ²		
ENG 105						ARC 211		

Global Pathway Topic: Business, Economy and Society

Thematic Pathway Topic: Design & the Built Environment

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.

Appointments: _____

Validate Your Pathways!

You will receive an email approximately 1 day after you save your Pathway courses with instructions to validate your selections. Click on the link provided to review our analysis of your selections.



[Undergraduate Education](#) > [Apps](#) > [Academics](#) > [Pathways](#)

[Profile](#) [Academic Review](#) [Pathways](#)

Pathway		Course
Thematic	Cross-Cultural Explorations: Big Ideas and Lived Experiences	APY 108LEC
		GGS 205LEC
		MAE 277LEC
Global	Business, Economy and Society - Global Pathway	ECO 181LD
		DMS 220LEC
		MAE 451LEC

Thematic Pathway

Your Thematic Pathway includes a major requirement.

Global Pathway

Your Global Pathway includes a major requirement as List 3

Diversity Learning Requirement

You have incorporated a Diversity Learning requirement in your pathway selections.

HUB Academic Advisement Report

The HUB Academic Advisement Report (AAR) is an advising tool that tracks progress toward graduation by showing how courses taken meet graduation requirements. The AAR summarizes all General Education and Major requirements, indicating those that have been satisfied; computes cumulative and technical GPAs; totals all credit hours taken; lists repeated courses and grades; notes Incomplete courses; indicates test scores and credits granted for AP and CLEP examinations; and lists all transfer and UB courses taken.

- To access your AAR, log on to the HUB Student Center and select “Academic Requirements” from the drop down menu under the Academics heading.

FRESHMAN SPRING

Not Satisfied: FRESHMAN SPRING - 5 Courses Required (RQ-01639)

▶ Calculus 2

▼ Chemistry 2

Not Satisfied: Chemistry 2 - 1 Course Required (LN-020)

- Courses: 1 required, 0 taken, 1 needed

The following courses may be used to satisfy this requirement:

Course	Description	Units	When	Grade	Status
CHE 102LLR	General Chemistry	5.00	Fall, Spring, and Summer		
CHE 106LLR	Chemistry-Prin & Applic	5.00	Spring Only		
CHE 108LLR	Gen Chem for Engineers	4.00	Spring Only		

View All | First 1-3 of 3 Last

Note: Most SEAS major requirements are sorted by semester. For example, a typical freshmen spring semester will include Calculus 2 and Chemistry 2. The AAR displays courses that can be used to satisfy each requirement.



Academics

[Class/Catalog Search](#)
[Plan](#)
[Enroll](#)
[My Academics](#)
[View My Grades](#)

other academic...

Academic Planner
Academic Requirements
 Apply for Graduation
 Class Schedule
 Course History
 Enrollment Verification
 Enrollment: Add
 Enrollment: Drop
 Enrollment: Edit
 Enrollment: Swap
 Exam Schedule
 Grades
 Learning Management System
 Transcript: Request Official
 Transcript: View Unofficial
 Transfer Credit: Modelling
 Transfer Credit: Report
 What-if Report
 other academic...
[Accept/Decline Awards](#)
[Report Other Financial Aid](#)

Registration Tips and Tricks:

Class Schedule, Shopping Cart, & Enrollment Date

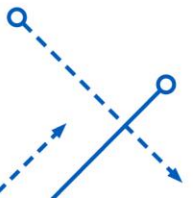
- Enroll in Spring 2018 classes *on the first day* of your enrollment appointment!
 - Appointments are assigned based on student credit hours, with priority given to students with higher credit hours earned prior to the start of the fall 2017 semester.
 - Appointments will begin at 7:00 AM. Once your appointment time begins, you can drop and add courses until the end of the drop/add period for the session.
- Class Availability Icons
 - Open with reserves – seats are available, but may be reserved for specific majors
 - Open – class is open to all students who meet enrollment requirements
 - Closed – class is full
 - Waitlist – class is full, but the department allows students to add themselves to a wait list

 **Enrollment Dates**

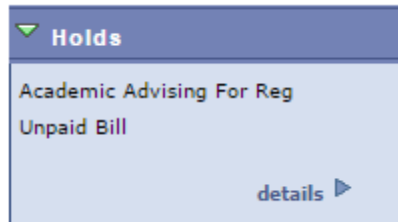
Shopping Cart Appointment
Your Shopping Cart for the Winter 2016 University 3 Week - First session is available for use beginning October 1, 2015.

Enrollment Appointment
You may begin enrolling for the Spring 2016 University 15 Week Session session on November 13, 2015.

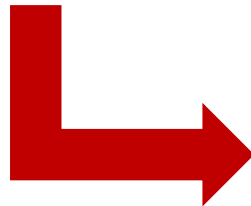
[details ▶](#)



Registration Tips and Tricks: Check Your Holds!



- Log onto your HUB Student Center to view your Holds.
- Click on Details to see more information.



Item List						
Hold Item	Institution	Start Term	End Term	Start Date	End Date	Department
Academic Advising For Reg	University at Buffalo	Fall 2015		06/09/2015		All Departments
Unpaid Bill	University at Buffalo	Begin Term - Svc Indiatr Use		04/12/2015		Stu Acad Records & Fin Svcs



Instructions

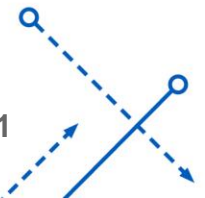
You have this hold because you must pay your past due balance. You will be unable to add courses, receive refunds, receive a transcript, produce enrollment verification or receive a diploma until this hold is resolved. In addition, failure to pay this past due balance may result in the account being turned over to a collection agency or the NYS Attorney General. For questions please contact Student Accounts at UBstudentaccounts@buffalo.edu, (716)645-1800 or 232 Capen Hall.

- Click on a specific item for instructions on resolving the hold.

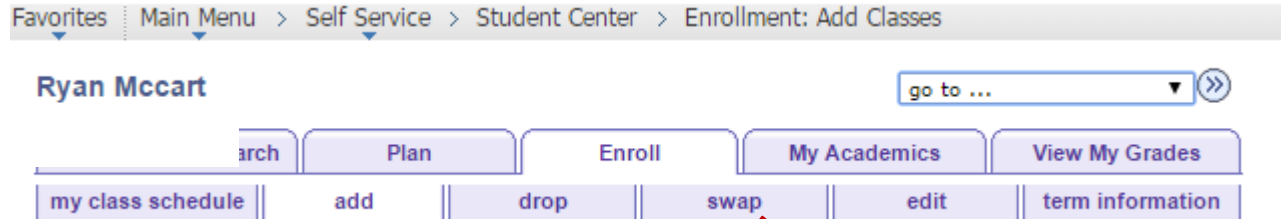
All admitted SEAS majors are REQUIRED to complete the Professional Development Survey.

All admitted and intended students must complete the cultural competence requirement!

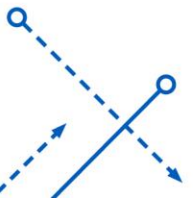
Students who have not completed these requirements will have a HOLD that prevents Spring 2018 registration!



Registration Tips and Tricks: Adding, Dropping, & Swapping



- Add a class to your Shopping Cart
- Drop a class from your Spring schedule (before the end of add/drop) or Resign a class for your Fall schedule (before the resignation deadline.)
- Swap one class for another class. The Swap feature will only drop you from the first class if you are successfully enrolled in the second class.
- **Step-by-Step Enrollment Guide:** <http://www.buffalo.edu/hub/students/pdfs/enrollClassSearch.pdf>





Questions?

**School of Engineering and Applied Sciences
Office of Undergraduate Education
410 Bonner Hall/645-2775**

Email: UBEngineer@buffalo.edu

