Today’s Goals

• Course Overview
  – Courses you are taking
  – Courses you will be taking

• Planning
  – Advisor & Tips
  – What you should be thinking about

• Remove the hold on your account
  – Ask/answer your questions
Visit the CS Website
https://www.cs.umass.edu
BA Course Tracking Form:

BA-CMPSCI Tracking Form for departmental requirements

Name: ____________________  ID#: ____________________  Advisor: ____________________

Two introductory CS courses

121 Problem Solving  Term: ____________________  Grade: ____________________
187 Data Structures  Term: ____________________  Grade: ____________________

Three math courses

M131 Calc  Term: ____________________  Grade: ____________________
M132 CalcII  Term: ____________________  Grade: ____________________

The math course can be any 200+ MATH course, EXCEPT 214, 220, 227, 228, 229, 231, 311, 312, 313, 315, or 317.

Core CS courses [complete only three]

1. Term: ____________________  Grade: ____________________
2. Term: ____________________  Grade: ____________________
3. Term: ____________________  Grade: ____________________

The courses must be chosen from the following list:
- 220 Programming Methodology
- 290 Computer Systems Principles
- 303 Reasoning Under Uncertainty (M132 grade)
- 325 Intro to Computation (M131 grade or M132 coreg if passes available, based on M131 performance, with instructor permission)

Your choice of cores determines which CS electives you can take. Students are strongly encouraged not to take 220 and 325, or 320 and 330 simultaneously.

NOTE: Completion of 121, 187, and three CS cores completes the CS minor.

Int Experience (IEI): Jr Yr Writing

305 Social Issues

CS courses only. 300-level or higher, unless CS550. Courses numbered 200-498 [limit of 2 credits] require UPO approval to secure toward degree. Graduate level courses (5XX and higher) can be used however the credit for these courses can be significantly greater.

Four-Course Outside Concentration

(must be approved by UPO prior to registration for the semester senior year)

Concentration Area: ____________________

1. Term: ____________________  Grade: ____________________
2. Term: ____________________  Grade: ____________________
3. Term: ____________________  Grade: ____________________
4. Term: ____________________  Grade: ____________________

Non-CS courses, 300-level, that form a focused study in another discipline are eligible. With appropriate justification, students may propose that one of the four be a "course from the 300-level CS core, or a "CS elective.

University, General Education and Foreign Language requirements should be checked on the checklist.

3.0 GPA in courses applied to major. No courses applied to degree can be pass/fail.

Language

Check box if complete. Study of a foreign language is required for all B.S. degrees by the College of Natural Sciences.

Entered March 19, 2014
First and Second Year BS Courses

(From the BS Tracking Form)

Note: Choice of Calc or Stats
If you are taking 121 and 131:
Your next courses are: 187 and 132.
If you are taking 187 and 132:
Your next courses are: 220 and 250:
First and Second Year BA Courses

Two introductory CS courses

121 Problem Solving
Term: Grade:

187 Data Structures
Term: Grade:

Three math courses

M131 Calc I
Term: Grade:

M132 Calc II
Term: Grade:

The third course can be: any 200+ MATH course, RE211*, RE212*, STAT240*, STAT501*, or STAT515. * not applicable to the BS.

Core CS courses (complete only three)

1. Term: Grade:
2. Term: Grade:
3. Term: Grade:

The courses must be chosen from the following list:
• 220 Programming Methodology
• 230 Computer Systems Principles
• 240 Reasoning Under Uncertainty (M132 prereq)
• 250 Intro to Computation (M131 prereq/M132 coreq if seats available, based on M131 performance, with instructor permission)

Your choice of cores determines which CS electives you can take. Students

(From the BA Tracking Form)
If you are taking 121 and 131:

**Two introductory CS courses**

- **121** Problem Solving  
  Term: Grade:  
- **187** Data Structures  
  Term: Grade:

**Three math courses**

- **M131** Calc I  
  Term: Grade:  
- **M132** Calc II  
  Term: Grade:  
- Math 127-128 can be substituted for Math 131-132 for the BA, but this option will restrict access to 200-level cores and higher-level electives.

**Core CS courses (complete only three)**

1.  
   Term: Grade:  
2.  
   Term: Grade:  
3.  
   Term: Grade:

- The courses must be chosen from the following list:  
  - 220 Programming Methodology  
  - 230 Computer Systems Principles  
  - 240 Reasoning Under Uncertainty (M132 prereq)  
  - 250 Intro to Computation (M131 prereq/M132 coreq if seats available, based on M131 performance, with instructor permission)

Your choice of cores determines which CS electives you can take. Students

(From the BA Tracking Form)
Your next courses are: 187 and 132:

Two introductory CS courses
121 Problem Solving
Term: Grade:
187 Data Structures
Term: Grade:

Three math courses
M131 Calc I
Term: Grade:
M132 Calc II
Term: Grade:

Math 127-128 can be substituted for Math 131-132 for the BA, but this option will restrict access to 200-level cores and higher-level electives.

Core CS courses (complete only three)
1. Term: Grade:
2. Term: Grade:
3. Term: Grade:

The courses must be chosen from the following list:
• 220 Programming Methodology
• 230 Computer Systems Principles
• 240 Reasoning Under Uncertainty (M132 prereq)
• 250 Intro to Computation (M131 prereq/M132 coreq if seats available, based on M131 performance, with instructor permission)

Your choice of cores determines which CS electives you can take. Students

(From the BA Tracking Form)
200 level CS Core Courses

BS-CMPSCI: Must take all 4 200-level cores.
200 level CS Core Courses

BA-CMPS: Must take at least 3 200-level cores.

Core CS courses (complete only three)

1.  Term: Grade:  
2.  Term: Grade:  
3.  Term: Grade:  

The courses must be chosen from the following list:
- 220 Programming Methodology
- 230 Computer Systems Principles
- 240 Reasoning Under Uncertainty (M132 prereq)
- 250 Intro to Computation (M131 prereq/M132 coreq if seats available, based on M131 performance, with instructor permission)

Your choice of cores determines which CS electives you can take. Students are strongly encouraged not to take 220 and 230, or 240 and 250 simultaneously.

NOTE: Completion of 121, 187, and three CS cores completes the CS minor.
200 level CS Core Courses

Two introductory CS courses

121 Problem Solving
Term: Grade:

187 Data Structures
Term: Grade:

Four math courses

M131 Calc I
Term: Grade:

M132 Calc II
Term: Grade:

Four core CS courses

220 Programming Methodology
Term: Grade:

250 Intro to Computation
Term: Grade:

230 Comp Systems Principles
Term: Grade:

240 Reasoning Under Uncertainty
Term: Grade:

Intensive Programming
Mathematical Foundations of Computing

Require 1 year of Calculus
200 level CS Core Courses

Recommended Sequence:

CMPSCI 220 and CMPSCI 250
200 level CS Core Courses

Recommended Sequence:

CMPSCI 230 and CMPSCI 240
200 level CS Core Courses

Can’t do this:

CMPSCI 220 and CMPSCI 230
200 level CS Core Courses

Also, can’t do this:

CMPSCI 250 and CMPSCI 240
Consider taking Summer courses:

These CS courses are usually offered online in the Summer:

CS121, CS187, CS305 JrYr Writing (CS majors only + junior or senior standing), check CS website/SPIRE for more…

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Also:

Science courses: Chem, Physics, etc.

Gen Eds…
Gen Eds?

- See SPIRE for ARR report - what you need to satisfy. Registrar’s website: http://www.umass.edu/registrar/students/general-educationacademic-requirements
BS-CMPSCI Tracks

- General CMPSCI
- Artificial Intelligence
- Computer Architecture
- Networking
- Programming Languages & Compilers
- Theory of Computation

- Robotics, Vision, & Graphics
- Search & Data Mining
- Security & Privacy
- Software Engineering
- Software Systems
Adviser & Tips

• Your Adviser

  – 1<sup>st</sup> and 2<sup>nd</sup> year: group advising.
    • 1<sup>st</sup> year: Gordon Anderson
    • 2<sup>nd</sup> year: Tim Richards

  – Individual adviser for 3<sup>rd</sup> year students
Adviser & Tips

Visit ACE: (Check CS website for details)

CS Undergraduate Advising Center (ACE)

ACE is the Place!

If you are looking for help during the semester, start with the CS Undergrad Advising Center (ACE) in the USpace, 144 CS Bldg:

Fall 2014 ACE Hours

<table>
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<th>Day</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Monday</td>
<td>11:00am-1:00pm</td>
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<tr>
<td></td>
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<tr>
<td>Tuesday</td>
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<tr>
<td>Wednesday</td>
<td>10:00am-12:00pm</td>
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<tr>
<td></td>
<td>2:00pm-4:00pm</td>
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<tr>
<td>Thursday</td>
<td>9:00am-11:00am</td>
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<td></td>
<td>2:30pm-5:00pm</td>
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<tr>
<td>Friday</td>
<td>11:30am-1:00pm</td>
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<tr>
<td></td>
<td>2:00pm-5:00pm</td>
</tr>
</tbody>
</table>

ACE opens on first day of class (Sept 2nd) through the last day of classes (Dec 5th).
What you should be thinking about

• Study Habits?
• Attendance / Participation?
• Office Hours? Talk to Instructors?
• Library tutoring center?
• What did I like/dislike?
• Honors College: Departmental Honors?
• Coops/Internships?
Get enough sleep.
Get Involved!

- ACM (http://umass.acm.org)

- Leadership Committees (Junior and Seniors)
  - ACE Peer Advising
  - ROCKs Recruiting & Outreach

- REU Program
Get Involved!
https://www.cs.umass.edu/

- **CS Women**
  http://umasscswomen.weebly.com/

- **Uspace** (144 CS Bldg)
  undergraduate study space

- **Undergrad Events**
  (See CS Calendar)
Upcoming Events

Friday, November 7, 2014
UG Event - Co-ops: How And Why?
4:00 pm - 5:00 pm
Todd Butynski, UMass Career Services
Host: Prof. Robert Moll, UMass Computer Science
Computer Science Building, Room 150/151

Friday, November 21, 2014
UG Event - Security, Privacy, And Ethics In Computing
4:00 pm - 5:30 pm
Prof. Brian Levine, UMass Computer Science
Engineering Lab II, Room 119
Hold Release and Questions

We will be happy to meet with you for more detailed questions or concerns right after this presentation.

You will be cleared to have your registration code (RAC) released before registration period begins:

Monday, November 24, 2014
Registration - Freshmen