Welcome to UMass Amherst

Class of 2021
Welcome to:
The College of Information and Computer Sciences at UMass Amherst
Agenda

- Sign In & info sheet?
- Introduction
- Programs
- Application Process
- Fall 17 Classes
- Spring 18 Registration
Introduction

Greg Boisseau
CICS Exploratory Track Advisor
CS 120
413-545-4822
gregb@cics.umass.edu

ROCK’s
Shivangi Singh
Itamar Levy-Or
Advising

- I am Your Academic Advisor
- My job is to help you:
  - Navigate majors (Major Exploration)
  - Narrow your academic focus
  - Develop a “Back Up Plan”!
  - Declare a Major
- During the school year advising is done in person
- On-line appointment system or you can call
Advising

- Meet at least 3 times per semester
  - Today
  - Info Session in late Oct (TBD)
  - One on one prior to enrollment appointment
  - Hold – check spire
- Connections – Introduce yourself to each Prof
- Always welcome to see me!!!!
Advising

- **FERPA** – the federal Family Educational Rights and Privacy Act of 1974
  - College is VERY different from K-12
  - Student records belong to the you (no one else)!
  - Waiver
  - It is your education

You’re in the driver’s seat! Your parents are in the passenger's seat!
Important Dates

- “Students Interested in Computer Science Major”, CS Info Session Sept 15, 2017 @ 4:00PM in Elab 119
- Add/Drop – Sept 18
- W date – Oct 19
- Spring 18 Registration, Mid November
Engineering Info Sessions
- Sept 6 @ 5:30 PM in CC 803 (Electrical, Computer & Chemical)
- Sept 7 @ 5:30 PM in CC 803 (Mechanical, Industrial & Civil)

ISOM Info Sessions
- BBA - Sept 20 @ 5:30 PM in Isenberg 106
- Sport Management - Sept 27 @ 5:30 PM in Isenberg 106
- HTM - Sept 27 @ 6:00 PM in Isenberg 106
CICS Exploratory Track Statistics

- Class of 2021 is starting with 120
- Class of 2020 started with 114 and presently has 57
- Class of 2019 started with 74 and only 2 remain.
GRADUATION REQUIREMENTS

University
120 Credits
2.0 GPA minimum
Fulfill GenEd requirements
Graduate in 10 semesters maximum

School or College

Major
CS Undergraduate Programs

• Undergraduate Program
  – Bachelor of Science in CS
  – Bachelor of Arts in CS
  – Minor in Computer Science

• Informatics Major
  – Through BDIC
  – Run by Computer Science
### BS Computer Science

- **14** Computer Science
- **4** Math
- **2** Majors-Level Lab Science

---

#### Two Introductory CS Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>121</td>
<td>Intro to Problem Solving</td>
<td></td>
<td></td>
</tr>
<tr>
<td>187</td>
<td>Data Structures</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Four Math Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>M131</td>
<td>Calc I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M132</td>
<td>Calc II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M233</td>
<td>Multivariate or STAT515</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M235</td>
<td>Linear Algebra</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Four CS Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>220</td>
<td>Programming Methodology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>230</td>
<td>Comp Sys Principles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>240</td>
<td>Reasoning Under Uncertainty</td>
<td></td>
<td></td>
</tr>
<tr>
<td>250</td>
<td>Intro to Computation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Eight Upper-Level Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>311</td>
<td>Algorithms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 300+</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 300+</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 300+</td>
<td>Or, Other Approved Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 300+</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 400+</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 400+</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 400+</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Integrative Experience**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>305</td>
<td>Social Issues in Computing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Jr/Yr Writing**

- Choice of 320*, 326*
- *CS 320 or 326 may also satisfy an upper-level elective.

---

**Major GPA**

Minimum 2.0 cumulative GPA in all courses applied to major. Pass/Fail not allowed in major.

**CNS Lab Science Courses (8 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 111</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 112</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOL 101</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 151</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 152</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Approved outside courses include:**

- ECE 353, ECE 357AB, ECE 668, LINGUIST 401, MATH 411, MATH 545, MATH 551, MATH 552

---

University and GenEd requirements should be checked on SPIRE. This form is for guidance only.
**BA Computer Science**

- 10 Computer Science
- 3 Math
- Foreign Language
- 4-Course Concentration

### BA-CS Tracking Form for major requirements

**Name:**

**ID#:**

**Advisor:**

#### Two Introductory CS Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>121</td>
<td>Intro to Problem Solving</td>
<td></td>
<td></td>
</tr>
<tr>
<td>187</td>
<td>Data Structures</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Three Math Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>M131</td>
<td>Calc I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M132</td>
<td>Calc II</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 that require Math 132 as a prerequisite.

#### CS Core Courses (complete only three of the four)

1. Semester:
   - Course: [Select from following list]
   - Grade:

   - Students are strongly advised not to take 220 and 230 or 240 and 230 together in the same semester.

2. Semester:
   - Course: [Select from following list]
   - Grade:

3. Semester:
   - Course: [Select from following list]
   - 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 (M132 prereq)

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

**Five Upper-Level CS Courses (300+)**

1. Semester:
   - Course: 310
   - Grade:

2. Semester:
   - Course: 320 or 328
   - Grade:

3. Semester:
   - Course: [Select from following list]
   - Grade:

4. Semester:
   - Course: [Select from following list]
   - Grade:

   - CS courses only (not CS 305). Courses numbered 400-459 (limit of 3 credits) require GPA approval to count toward degree.
   - Some graduate (600+ level) courses are permitted, but often have twice the workload of underpplied courses.

5. Semester:
   - Course: [Select from following list]
   - Grade:

   University requires IE and JW courses be taken at UMass Amherst. Secondary CS Majors should satisfy these requirements in their primary major.

#### Choice of 320*, 326*

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>320</td>
<td></td>
<td></td>
</tr>
<tr>
<td>326</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*320 or 326 may also satisfy an upper-level elective.

#### Four-Course Outside Concentration

(must be approved by UPD prior to registration for 1st semester senior year)

<table>
<thead>
<tr>
<th>Concentration Area</th>
<th>Semester</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Language

- Check box if complete. Study of a foreign language is required for the BA degree by the College of Information and Computer Sciences.

University, General Education and Foreign Language requirements should be checked on SPIRE. Revised June 23, 2016.
Informatics Program

- Informatics has two tracks:
  - Data Science
  - Multimedia

- Presently offered through BDIC

- Dr. Michelle Trim (CICS) - Advisor

https://www.cics.umass.edu/informatics
Minor in Computer Science

- **Course Requirements (5)**
  - 2 Entry Level Computer Science
  - At Least 2 200-Level Courses
  - 1 200-Level or Above

- **Submit “Intent” form (no application)**
  - Due same time as major application
  - Same academic standards
Applications are accepted:
  • October 1
  • March 1

When should you apply?
  • The semester you are enrolled in CS 187

Up to 3 consecutive applications are permitted
CS Application

Criteria:
• Math 131 & Math 132 - B+
• CS 121 & CS 187 - B+
   ✷ CS 190D (CS 186)
   • Must attend “Students interested in computer science major” prior to application

Notification
• Receive contract’s within 2 weeks
• Fulfilled contract or not (after grades are posted)

Importance of Back Up plan!!

https://www.cics.umass.edu/ugrad-education/major-change-cs
<table>
<thead>
<tr>
<th>Class</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>CICS 191CICS2-01 SEM (79470)</td>
<td>Mo 4:00PM - 5:00PM Van Meter House room 115</td>
</tr>
<tr>
<td>COMPSCI 187-01 LEC (79344)</td>
<td>TuTh 4:00PM - 5:15PM Engineering Lab II Room 119</td>
</tr>
<tr>
<td>COMPSCI 187-01A DIS (80330)</td>
<td>Mo 1:25PM - 2:15PM Lederle Grad Tower Room 225</td>
</tr>
<tr>
<td>ECON 103-01 LEC (73796)</td>
<td>MoWe 10:10AM - 11:00AM Integ. Learning Center N151</td>
</tr>
<tr>
<td>ECON 103-01AD DIS (73897)</td>
<td>Fr 9:05AM - 9:55AM Dickinson room 110</td>
</tr>
<tr>
<td>ENGLWRIT 112-130 LEC (72005)</td>
<td>TuTh 2:30PM - 3:45PM Machmer Hall room 413</td>
</tr>
<tr>
<td>MATH 131-04 LEC (74684)</td>
<td>MoWeFr 11:15AM - 12:05PM Lederle Grad Res Tower rm 219</td>
</tr>
<tr>
<td>MATH 131-04AB DIS (74831)</td>
<td>Th 10:00AM - 10:50AM Lederle Grad Res Tower 8m 173</td>
</tr>
</tbody>
</table>

Weekly schedule
Fall 17 Schedule

- “Balanced Schedule”
- 4 Classes + CS Seminar
  - CS 121 or 190D or 187
  - Math 131 or 132 or 233
  - CICS191CICS (seminar)
  - English Writing 112 or Elective
  - Major Exploration Class
- Start thinking about a “Back Up Plan”
Spring 18 Registration

- Mid November
- Hold – check spire
- Late Oct – Group Registration meeting
- Register for at least 12 credits
- Submit overrides
- Major Exploration!
Resources

- LRC
- Calc Tutoring Center
- Writing Center
- Professor Office hours
Career Development

• New Career Services Platform, “Handshake”:
  ➢ Sign up for career **events** like the career fair
  ➢ Apply to **jobs** and internships from over 1,000 employers
  ➢ Request **appointments** with a career advisor

• Want to know more?
  ➢ Visit their website at joinhandshake.com
  ➢ Call the CICS Careers team at (413) 545-8713
  ➢ Visit CICS Career Advising Center 120 Computer Science building

  *Eng & CS Career Fair – Sept 26, 10-3 @ CC Auditorium*
Please Remember

- **Focus** on CS but, **EXPLORE** possible majors and departments - take courses that interest and excite you
- Develop a **Back Up Plan**
- **TAKE YOUR TIME** with GenEds – get the most out of them
- **DECLARE A MAJOR**, ideally by the end of your 3rd semester (45 credits)
- Remember – **YOUR MAJOR DOES NOT EQUAL YOUR CAREER** (with very few exceptions)!
Q’s?