Welcome to UCR!

Congratulations on becoming part of our CNAS Family!
My responsibilities as Associate Dean

- For all undergraduates (~4,700):
  - recruiting
  - orientation
  - academic advising
  - enrollment management
  - student success programs
  - graduation certification
- Undergraduate policies and regulations.
- Faculty advisor for Undeclared CNAS students.
Majors in CNAS

Life Sciences

Biochemistry; Biology; Cell, Molecular and Developmental Biology; Entomology; Microbiology; Neuroscience; Plant Biology

Mathematical Sciences

Mathematics; Mathematics for Secondary School Teachers; Statistics
Majors in CNAS

Physical Sciences

Chemistry; Environmental Sciences; Geology; Geophysics; Geoscience Education; Physics

Undeclared

Life Sciences; Mathematical Sciences; Physical Sciences
~ 4,700 Undergraduates in CNAS
<table>
<thead>
<tr>
<th>Examples of Majors</th>
<th>Students</th>
<th>Faculty</th>
<th>S:F Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>2188</td>
<td>24</td>
<td>91:1</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>757</td>
<td>14</td>
<td>54:1</td>
</tr>
<tr>
<td>Neuroscience</td>
<td>211</td>
<td>21</td>
<td>10:1</td>
</tr>
<tr>
<td>Mathematics</td>
<td>227</td>
<td>24</td>
<td>9:1</td>
</tr>
<tr>
<td>Chemistry</td>
<td>142</td>
<td>26</td>
<td>5:1</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>144</td>
<td>27</td>
<td>5:1</td>
</tr>
<tr>
<td>Statistics</td>
<td>26</td>
<td>8</td>
<td>3:1</td>
</tr>
<tr>
<td>Physics</td>
<td>83</td>
<td>27</td>
<td>3:1</td>
</tr>
<tr>
<td>Geology/Geophysics</td>
<td>26</td>
<td>14</td>
<td>2:1</td>
</tr>
<tr>
<td>Plant Biology</td>
<td>26</td>
<td>30</td>
<td>1:1</td>
</tr>
<tr>
<td>Entomology</td>
<td>31</td>
<td>33</td>
<td>1:1</td>
</tr>
</tbody>
</table>
Two types of CNAS Bachelor’s degree

- Bachelor of Science — more science units, no foreign language requirement

- Bachelor of Arts — foreign language, humanities and social sciences units in place of some science units
Units/GPA for CNAS Bachelor’s degree

180 units minimum (~ 45 classes @ 4 units each)

- Minimum 2.0 GPA (C average).
- Minimum 2.0 GPA in all upper-division major courses.
Earning a Bachelor’s degree in CNAS requires full-time effort!!

- You need to study at least 2 additional hours for every hour spent in the classroom:
  
  16 units = 16 hours in class + 32 hours studying = 48 hrs/wk
Bloom’s Taxonomy of Learning

C = dutifully memorizing, not much more

B = applying knowledge in a critical, analytical fashion

A = critical/analytical thinking and integrating concepts
Requirements for a CNAS Bachelor’s degree

University (campus) requirements include:

- English 1A, 1B and 1C
- World History 10, 15, or 20
- Ethnic Studies course

College requirements include:

- Breadth or General Education Requirements:
  - Humanities, Social Sciences, Biological and Physical Sciences, Mathematics
Major course requirements

Lower Division courses (LD):
1-99 - Freshmen & Sophomores

Upper division courses (UD):
100-199 - Juniors and Seniors

Your academic advisor will help you plan out your courses each quarter.
LD preparatory courses for UD courses

- CALCULUS
- CHEMISTRY
- PHYSICS
- BIOLOGY
- STATISTICS

Q: What do these classes have in common?
Preparatory Courses in CNAS include:

- CALCULUS
- CHEMISTRY
- PHYSICS
- BIOLOGY
- STATISTICS

Q: What do these classes have in common?

A: MATH – it is the language of science

Scientists are never “done” with math!

If you struggle in math, you **have** to learn to master it, because you will use it forever.
Importance of MATH in CNAS

- Every CNAS major requires at least two quarters of Calculus, some require six.
- Success in Calculus courses is required to progress to courses in your major:
  - Calculus → Chemistry → Biology → UD Life Sciences
- Take Math each quarter until you have completed your preparatory math requirements.
Math Placement

• UC does not use High School math grades to determine math competence. UC uses the Mathematics Advisory Exam (MAE).

• Math placement is *mandatory* - enroll in the UCR Math course you placed into based upon your MAE score.

• Next MAE exam date: September 14 (Friday)
Possible Math placements from MAE

- Intermediate Algebra (LNCR 35)—review of high school algebra
- Math 8A or 5 — pre-calculus review
- Math 8B or 9A — first-quarter calculus
Intermediate Algebra placement

You must take and pass LNCR 35 this Fall at UCR.

You must pass LNCR 35 with a “P” (80% or higher) the first time to continue as a student in CNAS.
Importance of English in CNAS

› Students must be able to communicate scientific thought in writing.
› Every CNAS major must complete ENGL 1A, 1B and 1C with a “C” or higher.
› Being able to write well is required for both academic and career success.
English Placement

Analytical Writing Placement Exam (AWPE)
English placements are mandatory - enroll in the course you placed into based on your AWPE score.

Next AWPE exam date: September 17 (Monday)
Possible English Placements from AWPE

- Basic Writing 3 — basic grammar review
- English 4 — writing structure review
- English 1PA or 1A — first-quarter English composition
After your undergraduate degree

- Medical School?
- Other Health Professional School (Nursing, Dental, Pharmacy, Veterinary)?
- Graduate School in Math or Science?
- Other Professional School (Law)?
- Industry/Business?
- K-12 Teaching?
- University?
- Government?
Strategies for Getting into Graduate and Professional Schools

- Study what makes you **passionate**.
- Major in what makes you **exceptional**.
- Get involved in **research and/or internships**.
- Math, Chemistry, Biology and Physics are the basic sciences – but look beyond those to explore other majors.
- Sample some of the **smaller**, less familiar majors and see what you find.
CNAS Undergraduate Academic Advising Center (UAAC)

1223 Pierce Hall
(951) 827-7294

>>>>> cnasstudent@ucr.edu <<<<
http://cnasstudent.ucr.edu
Two types of advisors

- Academic advisor (staff): what courses to take, course enrollment help, review degree requirements, add/drop courses, rules and regulations. *In the UAAC - go here first!*

- Faculty advisor (professor): career advice, research advice, internships. *In your major Department.*

Together they are a team who can help you!
CNAS Student Web site

http://cnasstudent.ucr.edu/

Do some research on your major!

Learn who your academic advisor and faculty advisor are!

Learn about research and scholarship opportunities!
Mandatory Fall Transfer orientation

- Wednesday, September 26, 1:00 - 4:30 pm
- Bourns Hall B118

- More enrollment and advising details
- Student services representatives (HPAC, Career Center, etc.)
- Meet your faculty advisor
- Tour your Department
Mandatory Fall Freshman Orientation – required for major advising

<table>
<thead>
<tr>
<th>Major</th>
<th>Day, Date, Location</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology Freshman&lt;br&gt; Last Names A-K.&lt;br&gt; All Freshman majors in Cell&lt;br&gt; Molecular and Developmental Biology, and Microbiology</td>
<td>Monday, September 24th&lt;br&gt; Bourns Hall B118</td>
<td>8:45 a.m. to 12:00 p.m</td>
</tr>
<tr>
<td>Biology Freshman&lt;br&gt; Last Names L-Z.&lt;br&gt; All Freshman majors in Entomology, Neuroscience, and Plant Biology</td>
<td>Monday, September 24th&lt;br&gt; Bourns Hall B118</td>
<td>1:15 p.m. to 4:30 p.m.</td>
</tr>
<tr>
<td>All Biochemistry Freshman</td>
<td>Tuesday, September 25th&lt;br&gt; Bourns Hall B118</td>
<td>8:45 a.m. to 12:00 p.m</td>
</tr>
<tr>
<td>All Freshman majors in Undeclared Mathematical Sciences, and Undeclared Life Sciences</td>
<td>Tuesday, September 25th&lt;br&gt; Bourns Hall B118</td>
<td>1:15 p.m. to 4:30 p.m.</td>
</tr>
<tr>
<td>All Freshman majors in Chemistry, Environmental Sciences, Geology, Geophysics, Geoscience Education, Mathematics, Mathematics for Secondary School Teachers, Physics, Statistics, and Undeclared Physical Sciences</td>
<td>Wednesday, September 26th&lt;br&gt; Bourns Hall B118</td>
<td>8:45 a.m. to 12:00 p.m</td>
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Questions?