Welcome to the College of Natural and Agricultural Sciences (CNAS) at the University of California, Riverside. By selecting a major in the sciences you are choosing a demanding course of study. However, you can expect to be rewarded greatly for this choice. With the scientific training you receive, you will be able to make substantial contributions to humankind as someone who possesses a real understanding of how the natural world works. Human beings have become so numerous and are consuming resources so voraciously that the Earth may not long be able to support our current way of life. Human beings are overwhelming the natural cycles that have made life on Earth possible for some four billion years. There can be no future for the human experiment unless a critical mass of involved people understands the laws of nature that constrain our activities and develops solutions to ensuing population problems that are based on scientific knowledge and not on blind adherence to fads.

The experience you have at UCR will depend on you, on both your enthusiasm and your diligence. However, there are many people here who are prepared to help you along the way. This Handbook is designed to assist you in laying out your course of action over the next several years, and, through preparedness, to avoid pitfalls in the pursuit of a bachelor's degree. As a student pursuing a degree in the sciences we will prepare you to be among the “critical mass of involved people” that can assist the human experiment in the 21st century.

Michael A. McKibben
Divisional Dean, CNAS Student Academic Affairs
Nothing is Automatic

You, the student, must initiate all adds, drops, and changes in your course schedule, major changes, corrections in or requests for your transcript, applications to graduate, etc. You can obtain forms, petitions, and good, free advice in the CNAS Undergraduate Academic Advising Center, 1223 Pierce Hall.

Academic Advising
It is required that CNAS students receive advising from a professional and/or faculty advisor at least once every quarter, generally to obtain Growl registration access. Please check Growl at the beginning of the fifth week of the term regarding your advising requirements for the following terms registration.

Course Confirmation
Students should obtain a written course confirmation at the beginning of each quarter. Students may obtain course confirmations via Growl. If you have chosen the Wait List option for any of your courses, students should be sure to check their UCR R’mail for updates regarding their class schedule.

Adds, Drops, and Changes in Grading Basis
1. Most of these schedule changes can be accomplished during open enrollment periods, including the first two weeks of classes, on Growl. After the second week, an Enrollment Adjustment Form must be filed via the MyForms.ucr.edu website. Please make certain to follow all instruction in a timely manner. For details, see “Schedule Adjustments” in the online Schedule of Classes, www.classes.ucr.edu.

2. Students are subject to the course add, drop, and change deadlines published each quarter in the online Academic Calendar, www.registrar.ucr.edu. You should be aware that some classes (e.g., ENGL 1A, 1B, and 1C; and most lab sections) require mandatory attendance on the first day of class. However, not going to class DOES NOT DROP you from the class, even though you may not be allowed to attend.

3. The instructor’s and an advisor’s approval are always required to add a course on an Enrollment Adjustment Form. These approvals are valid for 10 days after the form is signed. Only an advisor’s approval is required to drop.

4. Classes dropped after the second week of the quarter, will result in a “W” permanent notation on the students transcript for the course. This is not a grade and will not affect a student’s GPA.

5. CNAS students must petition the Associate Dean when seeking deadline extensions of ADDS (after the third week), WITHDRAWALS (after the sixth week), or CHANGES in Grade Basis (after the eighth week). These petitions should be filed in the CNAS Undergraduate Academic Advising Center, 1223 Pierce Hall. Please be aware that Associate Dean’s Permission for ADDS, WITHDRAWALS, OR CHANGES under these circumstances is not routinely given. Such permission is only given in rare instances when extraordinary and extenuating circumstances prevented the student from filing the form on time. These circumstances must be documented. Being unaware that one is in the wrong section, wrong class, or wrong grading basis does not constitute extenuating circumstances. Neither does not doing well in the class.

6. The grading basis in a course generally cannot be changed after the end of the eighth week. Only under extraordinary circumstances will the Associate Dean consider a petition for a late or retroactive grade change to a letter grade.

7. Do not be surprised if...
   - you can only find the instructor for a signature during his or her office hours or in class.
   - you cannot find the instructor on the last day to add a class.
   - you have to wait in line to pay fees on the last day to submit signature or obtain advice from your academic advisor on a deadline day.

Catalog
It is the student’s responsibility to become familiar with the information contained in the UCR General Catalog. The General Catalog is only available on-line at catalog.ucr.edu. Much of the relevant general information about CNAS academic regulations is also contained in this CNAS Undergraduate Student Handbook. The quarterly Schedule of Classes is available on the web site, classes.ucr.edu and through the UCR student portal on R’Web at rweb.ucr.edu. The Handbook is also available at the CNAS Undergraduate Academic Advising Center web site, cnasstudent.ucr.edu.

Growl
UCR uses an enrollment system called Growl. Students are given two passes at enrollment each term. Students should try to enroll as soon as their first registration enrollment window for Growl opens and their registration holds are cleared. Students may also make changes later on Growl during the make-up enrollment period. Sometimes there may be late changes in class schedules that affect enrollment, so students should check back during the final Growl makeup window to verify their class schedule and/or add, drop, or make changes in the grading basis prior to the start of classes. These systems are also available during the first two weeks of classes for enrollment, and Growl is available throughout the quarter for course confirmations. See the Schedule of Classes academic calendar each quarter for the exact period when Growl is open at www.registrar.ucr.edu.

Final Examinations
There is a schedule of final exam times in the Schedule of Classes. Usually, final exams will be given in the room in which the class met, but it will probably not be at the same time or day of the week. If the instructor plans to give a final exam at a time other than that published in the finals schedule, it should be announced in class during the first two weeks of the quarter.
Grade Reports
The student is responsible for checking their grade report each quarter, available through Growl. If any errors are found in the grade report, initiate action to correct them IMMEDIATELY. Only the instructor can change the grade. REMEMBER: "I"s change to "F"s after one quarter unless extended by approval of a special petition to the Associate Dean and with instructor approval. All grades become final after one year.

Repeating Courses
Students may repeat courses only when grades of “D+” or lower, or “NC,” were received or when the course has been approved for repetition. Some courses, for example, Biol 5A, B, and C, require an instructor’s approval for a repeat even though a grade lower than “D+” was previously earned. (The repeat of a “C-” in Engl 4, 5, 1A, 1B, or 1C or in a foreign language course is also permitted.) For the first 16 units of repeats, only the most recently earned grade and grade points will be included in your GPA calculation. After 16 units of repeats, both grades are included in the GPA calculation. Check the general catalog or with an academic advisor to see if a course is repeatable. Second repeats (third time taking), of any CNAS course, are rarely granted and must be approved by the Associate Dean.

Readmission
If you have not attended UCR for one quarter or more, or if you attended for part of a quarter and withdrew, you cannot automatically register for classes at UCR for a future quarter. You must file an Application for Readmission at the CNAS Undergraduate Academic Advising Center by the deadline in the online Schedule of Classes.

Taking Courses at Other Schools
Students wishing to complete course work at other colleges or universities should always consult with an academic advisor BEFORE enrolling. Please note: Community College course grades do not transfer to UCR.

University of California Entry Level Writing Requirement
This requirement should be satisfied by the end of the third quarter of enrollment at UCR. If it has not been satisfied by that time, students may not be eligible to continue as a student at UCR. ONCE A STUDENT HAS ENROLLED AT UCR, COURSES MAY NOT BE TAKEN AT ANY OTHER UNIVERSITY OR COLLEGE TO SATISFY THE ENTRY LEVEL WRITING REQUIREMENT.

UCR R'mail
The primary mode of campus communications is e-mail, and it is therefore mandatory for students to utilize their campus e-mail accounts to review academic and administrative electronic correspondence. Please arrange to check your R'mail daily for important information from your academic advisor or the CNAS Undergraduate Academic Advising Center.
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Purpose of the Student Handbook

This Handbook is designed to help you in planning and achieving your academic goals for your bachelor’s degree at UCR. It is designed to simplify procedures and to acquaint you with the most common questions and their answers.

This Handbook is not intended to replace the UCR General Catalog, available on-line at catalog.ucr.edu, nor the UCR Schedule of Classes, available online at classes.ucr.edu. The Catalog explains all requirements and can introduce you to the wide array of majors and programs in the College of Natural and Agricultural Sciences. The Schedule of Classes includes all courses offered during the quarter, with sections, instructors, rooms, course hours, final exam schedule, and a program planner. The Schedule of Classes also includes the Academic Calendar which lists important dates and deadlines.

This Handbook does not and should not replace personal academic advising or answer many specific questions you may want to ask about individual programs. You should seek such personal advising at the beginning of your college career and whenever else you need it. Professional academic advisors are available for all CNAS undergraduates at the CNAS Undergraduate Academic Advising Center located in 1223 Pierce Hall. Faculty advisors are available for all majors. Such assistance will ensure that you select the right courses to meet degree requirements, determine the best options leading to graduate and professional schools or a career, and enable you to better cope with what may seem to be a web of bureaucracy.

Overview of the College of Natural and Agricultural Sciences

UCR has four undergraduate colleges: Bourns College of Engineering (BCOE); College of Humanities, Arts, and Social Sciences (CHASS); School of Business Administration (SoBA); and College of Natural and Agricultural Sciences (CNAS). CNAS is unique among land-grant institutions because it integrates training in the agricultural, biological, and physical sciences. Your choices among majors reflects this diversity. The College offers 16 undergraduate majors: Biochemistry, Biology, Cellular, Molecular and Developmental Biology, Chemistry, Entomology, Environmental Sciences, Geology, Geophysics, Geoscience Education, Mathematics, Mathematics for Secondary School Teachers, Microbiology, Neuroscience, Physics, Plant Biology, and Statistics. CNAS is currently home to approximately 5,000 undergraduates.

ACADEMIC ADVISING

CNAS Undergraduate Academic Advising Center

The CNAS Undergraduate Academic Advising Center is open from 9 a.m. to Noon and from 1 p.m. to 4 p.m., Monday, Tuesday, Thursday, Friday and is open 10 a.m. to noon and 1 p.m. to 4 p.m. on Wednesday, to assist students. The office is located at 1223 Pierce Hall.

The staff includes a Divisional Dean of student academic affairs, Director, Assistant Director, Professional Advisors, Office Business Manager and Academic Affairs Assistants. The Divisional Dean of Student Academic Affairs sees students by appointment. Students may request general information on procedures or requirements, schedule appointments with professional advisors to request information about credits, talk to advisors about majors, request information about the research pursuits of individual faculty, or seek answers to questions about academic progress and when appropriate schedule appointments with the Director, Assistant Director or the Divisional Dean. The easiest way to make an appointment with your advisor is online at myadvising.ucr.edu. Students may appear in person to make an appointment or call: (951) 827-7294 or (951) 827-3102. For additional information, please visit the CNAS Undergraduate Academic Advising Center web site at cnasstudent.ucr.edu.

For all CNAS students, the CNAS Undergraduate Academic Advising Center:

- Acts on petitions for declaring a major, withdrawal from UCR, readmission, credit by examination, changes in class schedule, declaration of double major or minors, and degree checks.
- Prepares an evaluation of transfer units for students who transfer to UCR from another institution.
- Reviews the records of all students in the College who expect to graduate, consults with the student’s major advisor to make sure all degree requirements have been met, and communicates this information to the student.
- Maintains a file for each student’s records.
- Provides information on courses that meet College breadth requirements.
- Provides academic advising and referrals for all CNAS undergraduate students.

Undeclared Academic Advising

CNAS is home to students whose major is one of those previously listed and to those Undeclared students in one of three general areas -- Undeclared-Life Sciences, Undeclared-Mathematical Sciences, and Undeclared-Physical Sciences. Students who follow the recommended program for any of the three undeclared areas will be prepared to enter any of several science majors, which will lead to a degree. Students are required to declare a major by the time they earn 90 units.

Major Academic Advising

All CNAS students are assigned a professional academic advisor in the CNAS Undergraduate Academic Advising Center. Students can find their academic advisor’s name in the Advising/Enrollment section of Growl. If for some reason you have not been notified of your advisor’s name, please check our website (cnasstudent.ucr.edu) in the “Who is Your Advisor?” link.

Faculty Office Hours

For all majors, regular office hours are clearly posted outside their office doors. Though facultyprefer to see students during office hours, many will also meet with students by appointment. For assistance in determining who your faculty advisor is, please contact the CNAS Undergraduate Academic Advising Center.

Transfer Students Academic Advising

For transfer students, the most important element for initial curriculum planning is the evaluation of previous college work. The Admissions Office determines which courses are transferable to UCR. The student may access the following web site, www.assist.org, to find out which community college courses are comparable to courses at UCR. The student must check their degree audit on Growl for the evaluation at growl.ucr.edu. The CNAS Undergraduate Academic Advising Center makes every effort to prepare this evaluation before student enrollment. However, the process is complex. If the evaluation is not ready prior to enrollment, the transfer student should make an appointment with an advisor in the CNAS Undergraduate Academic Advising Center; bringing copies of transcripts and syllabi of completed work. The advisor will guide initial course selection based on an unofficial evaluation of these records.
ENROLLMENT AND REGISTRATION

Mathematics Advisory Exam
Mathematics is the language of science and as such expertise in mathematics plays a large role in the success of all CNAS students. Since mathematics is such an important foundation for students in CNAS, students must begin taking mathematics their first quarter at UCR. Before enrolling in their first mathematics course at UCR most students will need to take the UCR Mathematics Advisory Examination (MAE). Only students who have college-level transfer work for mathematics from another college or university, Advancement Placement, or International Baccalaureate credit for Calculus are exempt from taking the MAE exam.

Students will be required to follow their MAE placement results. For more information, refer to the Mathematics major under the "Curricula and Courses" section of the UCR General Catalog. Students may enroll in mathematics classes at the level indicated by the test results by transferable credit for a required prerequisite math course. Students who are not Calculus-ready or higher by the beginning of their second year at UCR May be dismissed from CNAS.

California Chemistry Diagnostic
The California Chemistry Diagnostic Test is optional, but a passing score may be used to meet prerequisites for Chemistry 1A.

Intermediate Algebra Workshop
Certain MAE scores that indicate the need for additional work in intermediate algebra will place students in an Intermediate Algebra Workshop (IAW) college-level intermediate algebra course.

This means that these students will need to complete an intermediate algebra course prior to enrolling in any Science and Math courses required for CNAS majors. Students will have the option to enroll in the IAW college-level intermediate algebra course during the summer prior to their first Fall quarter at UC Riverside or, at the latest, during their first Fall quarter. Students who fail to complete the IAW college-level intermediate algebra course with a grade of "P" will not be able to continue as CNAS students in the Fall quarter for those who take the course in the summer or the Winter quarter for those taking the course in the Fall quarter of their freshman year.

Using Growl
The procedures for using "Growl" are covered at length in the Schedule of Classes. Each quarter, continuing CNAS students will obtain their registration access from their professional academic advisor by completing the requirements listed on Growl. You may also, check the Schedule of Classes for dates when registration begins. Students must also consult with their advisor each quarter for academic advising and approval of courses via Growl. New undergraduate students (freshmen) who have cleared all provisions of admission and paid the $100 Statement of Intent to Register (SIR) fee receive their registration material at Highlander Orientations. In September students who fail to enroll by the date specified in the Schedule of Classes or who fail to pay fees according to the schedule therein will have their registration cancelled, and their student status will lapse.

The Schedule of Classes is available online each quarter and provides detailed instructions concerning registration and enrollment. Read that section thoroughly and carefully, follow the instructions, and adhere to the deadline dates listed in the Academic Calendar. The following items are repeated from the Schedule of Classes to emphasize their importance to your enrollment. The current Schedule of Classes is available online at classes.ucr.edu.

Restrictions on Course Enrollment
Some courses listed in the Schedule of Classes have enrollment restrictions indicated. See the Catalog for additional prerequisite information. If you do not meet the listed requirements, you cannot enroll in the course through the Growl registration period. However, it may still be possible to enroll in such a course. To do so, you must obtain permission from the appropriate enrollment manager for a waiver. Permission can be obtained by filling out the Enrollment Request Form: https://ucrbsgsac.wufoo.com/forms/enrollment-request/

In-Person Enrollment
For those who miss the Growl registration, an Enrollment Adjustment Form obtained online at myforms.ucr.edu may be used to register after the second full week of classes, provided that space is still available in the classes. Obtain all required approvals for the Enrollment Adjustment Form and return it to your academic advisor in the CNAS UAAC before noon, the Friday of the third full week of classes. Refer to the Academic Calendar section of the Schedule of Classes for important deadline dates.

Verification of Enrollment
Students should always verify their enrollment early in the quarter, well before the Add/Drop deadline (see pg. 3), to ascertain that enrollment errors have not been made. This may be done through Growl or in person at the Highlander One Stop Shop. New and readmitted students who enroll through Growl may discuss their options with the academic advisor at the CNAS Undergraduate Academic Advising Center either during orientation or the first week of instruction for approval of their course enrollment.

Failure to Pay Fees
Registration fees are ALWAYS DUE BEFORE INSTRUCTION BEGINS. Refer to the Academic Calendar in the quarterly Schedule of Classes for specific deadline dates. Failure to pay before the deadline causes a late fee of $50 to be assessed, all previously enrolled courses will be dropped from your schedule, and your student status will be lapsed.

Course Load
The average course load for students in good standing should be 16 or 17 units per quarter, typically consisting of 4 regular academic courses, most of which are 4 units each. Students who plan to graduate in four years should complete, on average, a minimum of 45 units per academic year (three regular quarters plus summer session, if applicable) in order to meet the 180-unit minimum required for graduation.

To be considered full-time, a student must enroll in a minimum of 12 units. Students who need to attend part-time for 10 or fewer units due to work schedules, family responsibilities, or health problems must obtain approval from the Associate Dean of CNAS Academic Advising no later than the third week of the quarter. Failure to obtain such approval by the end of the third week forfeits the part-time fee reduction allowance. Students may apply for the Part Time Fee Reduction online at myforms.ucr.edu.

STUDENT STATUS AND CHANGES IN STATUS

Withdrawal from UCR
Unforeseen circumstances may require you to withdraw from all of your current quarter’s classes at UCR. There is no academic penalty as long as you complete the withdrawal process by the last day of instruction of the quarter, i.e., before final exam week. However, withdrawal after instruction ends requires Associate Dean approval which may be granted in rare instances requiring justification due to exceptional circumstances with supporting documentation. Withdrawal during the first few weeks of the quarter may result in a partial fee refund depending on the days elapsed since the beginning of instruction. Refer to “Withdrawal from the University” in the Schedule of Classes.
To withdraw, please consult your academic advisor at CNAS Undergraduate Academic Advising Center which must be approved by the Associate Dean. If you are concerned about whether you should or should not withdraw, or if you would like assistance in planning your return, you are encouraged to consult an advisor in the CNAS Undergraduate Academic Advising Center.

If you must leave campus because of a personal emergency and you cannot obtain the petition of withdrawal, notify your academic advisor at the CNAS Undergraduate Academic Advising Center, preferably in writing, before the last day of instruction.

PLANNED EDUCATIONAL LEAVE PROGRAM (PELP): This leave is for undergraduate students in good academic standing who want to interrupt their regular education for one year or less while clarifying educational goals, gaining practical experience away from campus, or enhancing the prospect of successful completion of an academic program. Students must have completed at least one quarter of course work at UCR and be in good academic standing to qualify. Students holding certain visas cannot participate in this program. If you need a leave from school for any of the above reasons and you know when you will return, you can apply for the PELP. The Highlander One Stop Shop will have your registration materials ready for you when you return. For further information, contact the Highlander One Stop Shop or the CNAS Undergraduate Academic Advising Center.

PLANNED UNIVERSITY LEAVE PROGRAM (PULP): This leave is for undergraduate students who plan to interrupt their education at the UC to study at another academic institution. Students interested in pursuing their education abroad (but not in the UC Education Abroad Program) should consult the International Services Center where forms are available. A student planning to attend a postsecondary institution in the United States should consult the CNAS Undergraduate Academic Advising Center.

Lapse of Student Status
Failure to pay fees or enroll in courses by the deadline will result in "lapse of student status". Lapse of student status means loss of all credit for courses for the quarter and loss of all student privileges, such as financial aid awards and student services. Reinstatement of student status requires filing an Application for Readmission. Make sure to consult the UCR Schedule of Classes at classes.ucr.edu and the CNAS Undergraduate Academic Advising Center website at http://cnasstudent.ucr.edu/students/readmit.html for information regarding readmission policies, the appropriate readmission application procedure, and applicable deadlines. There is a $70 non-refundable processing fee. Readmission assistance can be obtained at the CNAS Undergraduate Academic Advising Center.

Moving or Name Changing?
Change of Name or Address: Should you change your name or address (or both) during the year, please fill out a Change of Name or Address form as soon as possible on Growl.

CHANGES IN CLASS SCHEDULES

Enrollment Adjustment Forms
When Growl is closed, permitted class schedule changes may only be made by using an Enrollment Adjustment Form which can be accessed on-line at myforms.ucr.edu. The form requires that you obtain approval from your instructor or their academic department, advisor, and that your request is routed to the Highlander One Stop Shop before the deadline.

Nonattendance in classes does not mean that the course has been officially dropped nor does an instructor telling you that you have been dropped change your official enrollment. Only you can do that.

Late Changes
If you fail to comply with deadlines, you will need to petition the Associate Dean of Undergraduate Advising for late changes to your course schedule. Since it is your responsibility to meet deadlines, simply pleading that you did not know about the deadlines will not convince the Associate Dean to make an exception and grant your petition.

Extenuating circumstances sometimes exist. If you can document serious illness or an accident, you may petition the Associate Dean for an exception. However, doing poorly in a class is not considered a valid reason to drop a course late or for falling below the 12-unit minimum.

PETITIONS

Petitions are formal requests by students. There are petitions to add or drop classes, change a major, graduate, or withdraw from the University. Common examples are listed below. Be sure that you understand which approvals are required and where to submit the completed petition.

<table>
<thead>
<tr>
<th>Type of Petition</th>
<th>Where to Obtain Assistance</th>
<th>Final Processing of Petition (if approved)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enrollment Adjustment (Add/Drop)</td>
<td>CNAS Undergraduate Academic Advising Center or Highlander One Stop Shop</td>
<td>Registrar’s Office</td>
</tr>
<tr>
<td>Change a course from letter grade to S/NC or from S/NC to a letter grade</td>
<td>CNAS Undergraduate Academic Advising Center or Highlander One Stop Shop</td>
<td>Registrar’s Office</td>
</tr>
<tr>
<td>Change or Add a Major</td>
<td>CNAS Undergraduate Academic Advising Center or Highlander One Stop Shop</td>
<td>CNAS Undergraduate Academic Advising Center</td>
</tr>
<tr>
<td>Change or Add a Minor</td>
<td>CNAS Undergraduate Academic Advising Center</td>
<td>CNAS Undergraduate Academic Advising Center</td>
</tr>
<tr>
<td>Modify or substitute a College or University requirement</td>
<td>CNAS Undergraduate Academic Advising Center</td>
<td>CNAS Undergraduate Academic Advising Center</td>
</tr>
<tr>
<td>Obtain credit for work completed at another institution or for concurrent enrollment through UCR Extension</td>
<td>CNAS Undergraduate Academic Advising Center</td>
<td>CNAS Undergraduate Academic Advising Center (official transcript sent to the Office of Admissions)</td>
</tr>
<tr>
<td>Withdraw from the University</td>
<td>CNAS Undergraduate Academic Advising Center</td>
<td>Registrar’s Office</td>
</tr>
<tr>
<td>Apply for Graduation</td>
<td>CNAS Undergraduate Academic Advising Center</td>
<td>CNAS Undergraduate Academic Advising Center</td>
</tr>
<tr>
<td>Summer School Petition</td>
<td>CNAS Undergraduate Academic Advising Center or <a href="http://cnasstudent.ucr.edu/Summer%20Petition.pdf">http://cnasstudent.ucr.edu/Summer%20Petition.pdf</a></td>
<td>CNAS Undergraduate Academic Advising Center</td>
</tr>
</tbody>
</table>

Important Deadline Dates

Add/Drop (without a "W") via Growl..........................................................end of second week of classes
Add via an Enrollment Adjustment Form....................................................end of third week of classes
Drop (with a "W").........................................................................................end of sixth week of classes
Grading Basis Change (Letter grade or S/NC)...............................................end of eighth week of classes

BACHELOR'S DEGREE

What is a Bachelor's Degree?
A bachelor’s degree, awarded after all undergraduate work has been completed successfully, indicates competence in your major area of academic interest. The degree is usually completed within a four-year period. However, it may take a shorter or longer time, depending on the individual student. Regulations established by the University of California Regents specify minimum scholarship and residency requirements. These are described more fully in the UCR General Catalog.

The faculty of each of UCR’s four undergraduate colleges decides on certain criteria for your education, and specifies courses, which may be used to satisfy UCR “breadth” or general education requirements. For students in the College of Natural and Agricultural Sciences, these are courses in the Humanities, Arts, and Social Sciences. An additional requirement is a year-long series of courses in English Composition.

Each department, or interdepartmental program, is responsible for developing the curriculum in its major and for designing course work necessary to prove competency in the major field.

How to Obtain a Bachelor’s Degree
In order to complete the Bachelor of Arts (B.A.) or Bachelor of Science (B.S.) degree, you must:

- complete 180 units (but not exceed 216 units), with at least a C average (greater than or equal to 2.0) in overall course work and at least a C average in Upper Division major coursework.
- fulfill University requirements in the University of California Entry Level Writing Requirement (known as ELWR) and in American History and Institutions
- fulfill campus and college “breadth” or general education requirements and English Composition requirements
- meet the individual department requirements as designated by the major department including completing 36-80 units of specified upper-division course work in the major
- apply for graduation for a particular quarter before that quarter’s specific deadline (see the Schedule of Classes for deadline dates)
- complete at least 35 of the last 45 units for the degree in residence (See p. 8, Senior Residency)

Many CNAS majors offer a choice of either a B.A. or a B.S. degree. The two degrees differ in the following way: the B.S. degree requires the completion of 16 additional units in upper-division or substantive courses related to your major; the B.A. degree requires proficiency in a foreign language, an additional humanities course and an additional social science course. The foreign language requirement may be fulfilled in one language by completing four quarters or demonstrating equivalent proficiency; or for some majors by demonstrating equivalent proficiency (two quarters) in each of two languages. You will need to check with your academic advisor to determine how this requirement will be met.

Some majors may also differ in the number of “breadth” requirement units (courses outside the major in the Humanities and Social Sciences). It is your responsibility to be aware of your major’s specific requirements, and to consult with your advisor about them. This is especially critical for students who change their major and, thus, change some of these graduation requirements as well.

A requirement common for all students is proficiency in English composition. This can be fulfilled by taking the three-quarter course in composition and literature (English 1A-1B-1C/1SC). For other alternatives for completing this requirement, please check with the CNAS Undergraduate Academic Advising Center. Students are expected to begin to meet the English 1A-1B-1C/1SC requirement in their freshman year. CNAS students are expected to enroll in an English course (if offered) every quarter until this requirement is met. Once begun, the English 1 series must be completed at UC Riverside.

MAJORS AND MINORS
Selecting a Major
The selection of a major is one of the most important decisions students make during their undergraduate careers. Quite simply, it is impossible to graduate from the University without one. ("Undeclared" is not a major!) You need not decide too quickly. However, you must select a major by the end of your sophomore year before you complete 90 units of coursework.

In deciding on a major, follow your interests and talents. There may be many majors appropriate to the career or graduate program you are considering. And it is even more important, if you haven’t yet formed a vision of life after the bachelor’s degree, to choose a major that excites and challenges you intellectually, and one in which you have particular talent and enthusiasm. Talent and enthusiasm for your major will help you through the demands of your degree course work. For ideas about majors, please refer to page 12. Additional information is available in the CNAS booklet Selecting a Major. Information is available on the CNAS Undergraduate Academic Advising Center website, at cnasstudent.ucr.edu/files/selecting-major.pdf.

Professional schools, such as law, medicine, or business, accept students from a wide range of majors. Admission boards care most about good grades, high scores on admission exams, and strong letters of recommendation. Consult a catalog from the schools that interest you because some, like medical schools, have specific prerequisites for admission. If you are interested in a career in the health professions, please see page 9 under the heading “Preparation for the Health Professions” for information regarding the UCR Health Professions Advising Center.

Graduate programs are similar. It is possible to major in one discipline and attend graduate school in another, providing grades and Graduate Record Exams scores are high, letters of recommendation are good, and you have demonstrated, either with prerequisites or a trial period, that you are competent in the discipline.

If you cannot decide on a major immediately, don’t worry. You are among the high proportion of UCR freshmen that enter as Undeclared students. The range of major disciplines overwhelms many students, and they want time to explore these new offerings. Whatever the reason, being Undeclared provides students with the time to discover the most appropriate major for them.

At the CNAS Undergraduate Academic Advising Center, advisors work with students to explore a broad range of courses while fulfilling lower division science, math and breadth requirements. They will also help you in your search for a major and may refer you to student services such as the Career Center for aptitude/interest tests.

Students are required to declare a major by the time they reach junior status (greater than or equal to 90 earned units). Students who fail to declare a major by this time will be excluded from continuing in the college.

Life Sciences Core Curriculum
All students who are life science majors (Biochemistry, Biology, Cellular, Molecular and Developmental Biology, Entomology, Microbiology, Neuroscience and Plant Biology) must complete a uniform core curriculum prior to advancing to more than 12 units of upper-division life science courses beyond those being used to satisfy the core. Exceptions may, however, be granted by an academic advisor. The core courses consist of a one-year introductory biology course sequence (12 units minimum), a one-year general chemistry course sequence (15 units minimum), a one-year course sequence in organic chemistry (12 units minimum), two one-quarter courses in calculus (8 units minimum), a one-year general physics course sequence with laboratory (15 units minimum), one course in statistics (2 units minimum), and one course in elementary or introductory biochemistry (4 units minimum). Note that some majors require additional coursework in these areas beyond these minimum requirements. The list of specific courses, which satisfy the core, may be obtained from the CNAS Undergraduate Academic Advising Center website at http://cnasstudent.ucr.edu/files/Life_Science_Core_schedule_11-12.pdf.
Double Majors
Students applying for double major programs must have completed much of the work required for one or both majors prior to application. Students may not request double majors without sufficient upper-division coursework completed in order to evaluate their ability to complete requirements for both majors. Student must have a GPA of 2.7 or higher in the courses completed at UCR, as well as in all courses required by the major. Double majors are usually only approved for students who have at least three-quarters of residency, are at junior status level, and are in good academic standing. However, declaration of a double major must be filed in the CNAS Undergraduate Academic Advising Center at least two quarters before graduation.

Minors
A minor is a set of courses focused on a single discipline or an interdisciplinary area. Each minor consists of not fewer than 20 no more than 28 units of organized upper-division courses. No more than 4 units of 190-199 courses may be used in fulfilling the upper-division unit requirement for a minor. Of the specified upper-division units, a minimum of 16 must be unique to the minor and may not be used to satisfy major requirements. The department, program, or interdisciplinary committee offering the minor is responsible for student and administrative issues pertaining to the minor. Students must file a declaration of a minor by filing a petition with the CNAS Undergraduate Academic Advising Center at least two quarters before graduation and must be in good academic standing at the time of filing. A minor requires the approval of the academic advisor who advises for the major, the approval of the advisor who advises for the minor, and the approval of the Associate Dean. Contact the CNAS Undergraduate Academic Advising Center for more information about minors.

GRADEN

Grade reports are available at the end of each quarter, usually 1-2 weeks after finals week, through Growl.

Problems with Grade Reports:
If you discover an error on your grade report:
1. Consult the instructor if you think a grade is in error.
2. Consult with the Highlander One Stop Shop if you find other errors on your grade report.

Grading Scale
Courses are taken for a letter grade (A+ to F) or Satisfactory/No Credit (S/NC). D- is a passing grade (except for English writing, Foreign language and composition courses), but many course sequences in the sciences require a minimum grade of C- to proceed to the next course in the sequence.
Grade Point Values:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.00</td>
</tr>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.70</td>
</tr>
<tr>
<td>B+</td>
<td>3.30</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.70</td>
</tr>
<tr>
<td>C+</td>
<td>2.30</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td>1.70</td>
</tr>
<tr>
<td>D+</td>
<td>1.30</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>D-</td>
<td>0.70</td>
</tr>
<tr>
<td>F</td>
<td>0.00 (not passing)</td>
</tr>
</tbody>
</table>

Computing Grade Point Averages
To compute your Grade Point Average (GPA), multiply the point value of each grade by the unit value of the course. (If you received an "A" in Math 9A, multiply the 4.00 grade points by the 4 units. If you received a "B", multiply 3.30 grade points by 4 units.) Add all of the grade points earned in each class and divide by the total number of units attempted for a grade. For example, if you took the following three courses and earned these grades:

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Grade Point</th>
<th>Units</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1A</td>
<td>A</td>
<td>4.00</td>
<td>4.0</td>
<td>16.00</td>
</tr>
<tr>
<td>1LA</td>
<td>A</td>
<td>4.00</td>
<td>1.0</td>
<td>4.00</td>
</tr>
<tr>
<td>English1A</td>
<td>B</td>
<td>3.00</td>
<td>4.0</td>
<td>12.00</td>
</tr>
<tr>
<td>Math 9A</td>
<td>B+</td>
<td>3.30</td>
<td>4.0</td>
<td>13.20</td>
</tr>
</tbody>
</table>

Divide the grade point total of 45.20 by the unit total of 13.00, yielding a GPA of 3.46.

Satisfactory/No Credit (S/NC) Option
Any student in good academic standing (cumulative and quarter GPA of 2.00 or above) may take courses that are not required in, nor prerequisite to, their majors on a S/NC grade basis. "S" grades indicate C (not C-) or better work—students receive unit credit but the grade point average is not affected. Consult with your advisor on whether S/NC is a wise choice—some strategy is involved. For example, if you have put off taking World History until the final quarter of your senior year, you take the course S/NC, and earn a C- (NC), you will not get credit and will not be able to graduate. Had you taken the course for a letter grade, the C-, a passing grade, would not have been a barrier to graduation. Fortunately, you have until the end of the eighth week to change the grading basis of a given course. (Late or retroactive changes of the grading basis to S/NC are virtually never approved by the Associate Dean.)

Incompletes
Most commonly, professors will grant an Incomplete ("I") grade if a student is unable to take the final examination or finish a paper at the required time due to illness or other nonacademic problems that can be documented, providing the student’s previous work in the course was of passing quality. In order to remove the "I," students must complete the work required during the next regular academic quarter—professors will then report the grade to the Registrars Office on a Grade Change Form. Incompletes cannot be removed by enrolling in the course during the following quarter. If you cannot avoid an Incomplete, make arrangements with your instructor on how to replace the "I" for a grade. The "I" will automatically revert to an "F" (or NC) after one quarter unless the time period is extended by the instructor and approved by the Associate Dean. Petitions to extend an Incomplete beyond one quarter are available in the CNAS Undergraduate Academic Advising Center. Please note "I" grades received in the graduation term will delay graduation to the following term.

Repeating Courses
You may repeat courses once for credit if you received a D+ or lower, or an NC grade. Special rules apply to English 4, 5, 1A, 1B, and 1C/1SC. For the first 16 units of repeat, only the most recently earned grade and grade points will be used in calculating your Grade Point Average (GPA). In other words, if you take a course and receive an "F" and then repeat the course and earn an "A," only the "A" will be included in your GPA. The record of the "F" is not erased, but a note appears indicating that the "F" grade does not count in the GPA because it was repeated for full credit. A comment under the new "A" grade indicates that full credit is allowed. After a student has used 16 units of course repetition, both grades in any subsequently repeated course will be retained in the GPA. When repeating a class, be careful with the grading basis. If you took the course originally for a letter grade, then you must repeat it for a letter grade. If you signed up originally as S/NC, then you may repeat it S/NC or for a letter grade.

Repeating a course twice or more (third or more times taking), is only approved by the Associate Dean in the most extraordinary circumstances with appropriate documentation. If you need to repeat a course make certain to take full advantage of your advising and drop, withdrawal, and/or S/NC deadlines to avoid needing a third attempt.

HONORS

University Honors Program
Undergraduates in any of UCR’s four colleges with an excellent academic record may participate in the University Honors Program (UHP). The UHP curriculum emphasizes special seminars, projects, and classes designed to introduce honors students to the rewards of scholarship and research. The UHP also provides the student with the framework to produce a thesis or project under the supervision of a faculty advisor. The thesis is submitted by the end of the senior year. The UHP challenges honors students to take an active role in shaping their education.

The program offers a variety of extracurricular activities. Students help to plan trips each quarter to museums, theaters, or other cultural events. The UHP publishes a student-edited newsletter; provides guidebooks, catalogs, and test schedules; and offers clerical help for honors students applying to graduate and professional schools. A reading room, seminar room, lounge, and work space with computer facilities are available to honors students.

Freshmen are admitted to the UHP on the basis of high school academic, application essay and extracurricular records. Continuing UCR students with excellent academic records may apply or be nominated to participate in honors. Students who transfer to UCR as juniors and have an excellent academic record may also apply or be nominated to the UHP.

Address inquiries to the University Honors Program, 2316 Olmsted Hall, University of California, Riverside, Riverside, CA 92521 or call (951) 827-5323. For more information, please visit their web site at www.honors.ucr.edu.

Dean’s and Chancellor’s Honors Lists
Students who in any quarter complete a minimum of 12 units for letter grades with no grade below a B, and who average a 3.50 GPA or better for that quarter, will be placed on the Dean’s Honors List. This honor is noted on your official UCR transcript and acknowledged by a congratulatory letter from the CNAS Associate Dean of Student Academic Affairs. Students who are placed on the Dean’s Honors List for all three-quarters in a single academic year (Fall, Winter, and Spring) will be placed on the Chancellor’s Honors List for that academic year. This honor is also noted on the transcript.

Honors at Graduation
Honors are conferred following each quarter and after summer session. The award is noted on your official transcript and on your diploma. Students must complete 60 or more quarter units of graded work at the University of California to be eligible to receive honors at graduation.

Honors are based on GPA (determined by the CNAS June graduating class):
- Top two percent of the CNAS June class—highest honors
- Next four percent—high honors
- Next ten percent—honors

Phi Beta Kappa, a national honor society that recognizes outstanding scholastic achievement in the liberal arts and sciences, has a chapter at UCR (lota, the third oldest chapter in the UC system). For information about Phi Beta Kappa, call Gladis Herrera-Berkowitz, Associate Director of Student Affairs, Honors Program, at (951) 827-5042 or visit their website at honors.ucr.edu/opportunities/pbk/

Undergraduate Scholarships
Various undergraduate scholarships are available in the College of Natural and Agricultural Sciences. For information and application materials visit the CNAS Undergraduate Academic Advising Center or visit the website at cnasstudent.ucr.edu/scholarships.html.

ACADEMIC STANDING

Academic Probation
Good academic standing requires a minimum 2.00 GPA for work taken at the University of California. Students who fall below a 2.00, either at the end of any quarter or for the total graded courses taken in the University, are placed on Academic Probation. If your most recently completed quarter GPA is less than 1.50, or if your cumulative GPA is less than 2.00 after two consecutive quarters on probation, you are "Subject to Dismissal" from the University.

These categories are noted on your official transcript. Additional information is available in the CNAS publication, Guide to Academic Recovery. Copies are available on the CNAS Academic Advising Center web site at cnasstudent.ucr.edu under "Policy, Procedures & Forms", “Academic Standing”.

Read the instructions. If you are placed on Academic Probation or Subject to Dismissal, you will receive an e-mail from your major advisor and/or the CNAS Associate Dean of Undergraduate Advising. This e-mail will be sent to your UCR R’mail email address. It will explain limitations on your enrollment that will include the following:
1. May not enroll in more than 15 units
2. No S/NC grading
3. No internships

Adjust your schedule or make an appointment to talk to your advisor so that you conform to these limitations. If the email indicates that you must sign a contract in person, MAKE AN APPOINTMENT TO DO SO by the deadline date printed at the top of the email.

Dismissal and Reinstatement
If your GPA in any quarter falls below a 1.50 or your cumulative GPA is lower than 2.00, subsequent to two quarters on Academic Probation, you will be placed on "Subject to Dismissal." This implies that you may be dismissed from the University. However, an academic dismissal does not necessarily translate into a permanent separation from UCR. If you are dismissed, complete a Request for Dismissal Review, which is available at the CNAS Academic Advising Center. After your Request for Dismissal Review has been reviewed, you may make an appointment with the Associate Dean to discuss what is required of you before reinstatement can be considered. You may take repeatable courses through Concurrent Enrollment at UCR Extension or Summer Session. Upon readmittance to UCR, your UCR Extension grades will then be included in your GPA calculation. After you have discussed the options with the Associate Dean, and after the requirements for reinstatement have been met, be sure to file an Application for Readmission, which is available at the CNAS Academic Advising Center.

Please also submit an unofficial transcript showing proof of course completion with your Application for Readmission. Make certain to submit the Readmission Application form to the CNAS UAAC by the appropriate deadline, even if your grades have not yet posted. Upon approval by the Associate Dean, you will be required to submit the Application for Readmission at the Highlander One Stop Shop and pay a $70 non-refundable processing fee. Have official transcripts of any interim work sent to UCR’s Undergraduate Admissions Office at the Student Services Building, University of California, Riverside, Riverside, CA 92521.

SCHOLARSHIPS

ATTENDING OTHER SCHOOLS
Summer School at Another Institution
If you want to attend summer session at a school other than UCR, consult with an advisor in the CNAS Undergraduate Academic Advising Center. If you are taking a course to satisfy a Humanities or Social Science “breadth” requirement, you may access the web site www.assist.org to find out which community college courses are comparable to courses at UCR.

Before you take a science or math class at a summer school other than UCR, file a Summer School Petition with the CNAS Undergraduate Academic Advising Center. If you are taking a course that is a major requirement, consult with your advisor and obtain the advisor’s approval before you request the Associate Dean’s approval. After you take the summer school class, have the official transcript sent from your summer school to UCR’s Undergraduate Admissions Office, Student Services Building. You may download the Summer School Petition from the CNAS Academic Advising Center website at http://cnasstudent.ucr.edu/Summer%20Petition.pdf.

Remember: If you attend summer school anywhere other than UCR or another UC campus, the grade(s) you earn will not be included in your UC GPA. However, providing that the course is transferable and approved for your own curriculum, you will receive units and credit for completing the class. Graduating seniors also need to keep in mind the Senior Residency Requirement, which states that 35 of the final 45 units must be earned in residence at UCR in order for your bachelor’s degree to be conferred. Beginning your first term at UCR, all remaining English 1 courses must be taken at UCR.

Study at the UC Washington Center
The UC Washington Center Program offers qualified undergraduate students from any major an exciting opportunity to combine course work, field research, and work experience during a one-quarter residence in our nation’s capital.

While in Washington, students live in a residential college with 250 students from nine University of California campuses-Berkeley, Davis, Irvine, Los Angeles, Merced, Riverside, Santa Barbara, Santa Cruz and San Diego. The UC Washington Center Building includes student apartments, classrooms, computer facilities, and meeting spaces. It is located in central Washington, D.C.

Students are registered for their quarter in Washington as UCR students; academic credit is earned for courses taken. Students divide their weekly schedules among seminars taught by University of California faculty from all over the system, research projects, and internships.

Students sign up for up to 16 units of credit—an internship, a seminar, and an elective. The centerpiece of the program is the internship, which can be selected from a stunning array of possibilities. A list of typical internship sites might include the following areas: Environmental Policy, Arts, Theatre, Museums, and Art Administration, International Affairs, Law and Justice, Congress, Economic Policy, Elections, Political Parties, and Action Groups, Human Services and Social Policy, Press and the Media.

If you are interested in applying for the UC Washington Center Program, please visit ucdc.ucr.edu or email Trina Elerts in the University Honors Program at ucrucdc@ucr.edu.

Study Abroad Opportunities
The College of Natural and Agricultural Sciences encourages students to consider inclusion of an international experience as part of a degree objective. The Education Abroad Program (EAP) provides science majors with the opportunity to pursue part of their course work in another country, studying at other universities also renowned for the quality of their scientific research and curriculum. You must be a declared major to apply for EAP because foreign universities admit by an exact field of study. Though all UCR students are eligible for EAP study opportunities, some of the programs are designed specifically for science majors. These opportunities include a year of studies in scientific curricula at the University of British Columbia or the University of Edinburgh. For science majors interested in developing their skills in a foreign language there are education opportunities around the world, for example, tropical biology studies in Costa Rica. Several program options are available. The Education Abroad Program has specific information on direct enrollment options, and alternative opportunities. It is critical to meet with your major advisor to review your proposed study plan and approve your preliminary degree check at least two quarters before you meet with the EAP selection committee.

Annually, more than 4,500 UC students take advantage of academic and cultural opportunities provided through the Education Abroad Program. The UC EAP operates in cooperation with 200 host institutions worldwide. Financial aid is available to bring this opportunity within reach of most qualified students. Interested students should begin to plan for this experience as freshmen, since there are advanced language requirements for some countries and the application process is completed two quarters to a year in advance of departure. Additionally, students are encouraged to enroll in courses offering global perspectives and background in the United States in preparation for a year abroad.

The EAP office also provides information, advising, and administrative services for hundreds of other study options. Such options include summer study, discipline-specific study, and additional country locations. Undergraduate students must file a Planned University Leave Program (PULP) form to maintain their ability to reenter UCR upon return from abroad. For further information on PULP, refer to Withdrawals and Leaves of Absence in the Financial Finances and Registration section of the UCR General Catalog.

Nonacademic opportunities abroad are also popular. The International Services Center maintains liaisons with most of the networks offering internships, employment, and budget travel. Program selections, applications, and guidance are provided at the Education Abroad Program located in the 2322 Olmstead Hall and on-line at http://eapoap.ucr.edu.

Intercampus Visitor
Undergraduates in good academic standing may transfer from UCR to another UC campus for a single quarter. Pick up an application at the Highlander One Stop Shop and submit the form during the application periods listed below:
To attend winter quarter — July 1-31
To attend spring quarter — October 1-31
To attend fall quarter — November 1-30
After these dates, applications are accepted only if space is available. The form requires signatures from the Associate Dean to verify that you are in good academic standing and from the Highlander One Stop Shop. A nonrefundable fee is charged for all transfer applications filed.

GRADUATION REQUIREMENTS
In order to graduate with a bachelor’s degree from the College of Natural and Agricultural Sciences, every student must satisfy three sets of requirements—University, College Breadth, and the specific requirements for the major. For more detailed information regarding any of these areas, refer to the UCR General Catalog.

University Requirements
American History and Institutions
In most cases, the American History and Institutions requirement will have been met by work completed in high school. Contact the CNAS Undergraduate Academic Advising Center if you have questions.

University of California Entry Level Writing Requirement (ELWR)
This requirement must be fulfilled before you may enroll in English Composition. Students who have not passed the University of California Analytical Writing Placement Exam must enroll in an appropriate Basic Writing
or English Writing course to meet the Entry Level Writing Requirement (ELWR).

Any student who has not met ELWR after three quarters of enrollment in an English writing course at the level of ENGL 4 or higher at UCR is not eligible to enroll for another quarter. For more information, contact the University Writing Program, 1102 C HMNSS Bldg., at (951) 827-1384.

**Senior Residency**
To graduate with a University of California degree, students must complete at least three-quarters in the University of California. At least 35 of the final 45 units must be taken while registered at UC Riverside. Only one summer session at UCR may be used as a quarter’s residence. Courses taken through UCR Extension do not count toward senior residency.

**GPA Requirement**
A cumulative grade point average of at least 2.00 is required to graduate. A minimum 2.00 GPA is also necessary for all upper-division major requirements. These are absolute minima. No exceptions are allowed.

**Unit Requirements**
You will need a total of at least 180 units to qualify for a bachelor’s degree, regardless of the degree or major program, with a grade point average of 2.00 in all work taken at the University of California.

The maximum number of units allowed toward the bachelor’s degree is 216, excluding Advanced Placement (AP) or International Baccalaureate (IB) units. The Associate Dean’s permission is required, but rarely granted, if units need to be taken beyond the 216-unit limit to meet degree requirements.

**Breadth Requirements**
College Breadth Requirements for B.A. and B.S. degrees: Students usually use lower-division courses (numbered 1-99) to fulfill College Breadth although upper-division courses are acceptable (numbered 100-199). Upper-division courses need to be cleared by the CNAS Undergraduate Academic Advising Center. A course is defined as a block of instruction, which carries credit of four or more units. See pages 13-14 of this booklet for a Breadth Requirements Worksheet, or online at cnasstudent.ucr.edu/files/Breadth.pdf.

**Major Requirements**
Detailed requirements for each major will be found under the Department listing in the “Curricula and Courses” section of the UCR General Catalog. Life science majors must complete a uniform core curriculum (see page 5).

Before the beginning of the junior year, undeclared students must consult with their academic advisor and choose a major. A grade point average of at least 2.00 (“C”) in all upper-division major requirements is required for graduation.

**GRADUATING**

**Running a Degree Check**
At the point you reach 125 units, your major advisor will run a degree check to determine your completed and remaining requirements for graduation. You may do this check yourself using Growl at any time.

**Filing for A Degree**
You must file an on-line Application for Graduation in the CNAS Undergraduate Academic Advising Center by the deadline established for the quarter in which you intend to graduate. The on-line forms are available at cnasstudent.ucr.edu/graduation.html. The deadline, generally at least one quarter prior to the graduation date, can be found online at registrar.ucr.edu. If for any reason you do not meet the requirements for graduation after announcing your candidacy, or if you fail to meet the deadline for filing, you must again file an application for a subsequent quarter. If you have not attended UCR for one or more quarters prior to or including the quarter you wish to graduate, you will also need to file an Application for Readmission by the deadline for the quarter in which you plan on graduating.

**Commencement Ceremonies**
UCR’s graduation ceremony is held once a year in June even though you may receive your degree earlier in the academic year. Information about the ceremonies is e-mailed to prospective graduates during mid-May. It contains information on the time of the ceremonies, where to buy announcements, how to order a cap and gown, parking, seating, and even first aid. You can also view information through the Commencement web site at commencement.ucr.edu.

**CAMPUS RESOURCES**

**Libraries**
The University Library is the focal point for research and study at UCR. The Library’s collections include more than 2.5 million volumes and subscriptions to approximately 36,000 periodicals. The system includes three library facilities: the Orbach Science Library, the Tomas Rivera Library, and the Music Library. In addition, a collection of video and audiotapes is housed in the Multimedia Library.

**Orbach Science Library**
The Orbach Science Library supports the entire University with an emphasis on the College of Natural and Agricultural Sciences and the Bourns College of Engineering. The collection spans all sciences, with special strength in the areas of citrus and sub-tropical horticulture, entomology, arid land agriculture, soil sciences, computer science, and engineering. The library also feature state of the art electronic cartographic resources as well as Map Collection that has an extensive collection of maps and atlas.

**Checking Out Books**
The Circulation Desk at the Orbach Science Library is the place to go when you want to check out books, renew books, or return them. You will need your UCR Student Identification Card. You should also ask the Circulation when you cannot find your book or periodical on the shelf. Undergraduates may check out books for four weeks. UCR students may arrange to borrow books in person from any other UC libraries as well.

**Finding Books and Periodicals**
Students majoring in one of the sciences will primarily use the Orbach Science Library. However, the library materials that you need may be in any of our libraries. To find the location of books and periodicals at UCR, consult the online UCR Library Catalog at scotty.ucr.edu. You can find out about the library collections at other UC campuses by using the Melvyl System. Also use the Melvyl System to consult online indexes to magazines, newspapers, and journals, and to read the full text of many journals.

**Interlibrary Loan Services**
If the library does not own the books or periodical articles you need, you can fill out an interlibrary loan request form at the Orbach Science Library. The material will be obtained for you from another library.

**Library Hours**
A schedule of hours is published each quarter. Information about library hours can be obtained by calling the Orbach Science Library at (951) 827-3701 or the Rivera Library at (951) 827-3221 or online at library.ucr.edu/hours. Hours change during final exam periods, holidays, and academic breaks.

**Reference Services**
Reference librarians at any of the libraries will assist you in beginning a search for information, recommending research strategies, and identifying appropriate reference sources for your topic. Do not hesitate to ask – they can save you a lot of time!

**Reserve Readings**
Some required and additional reading material for your classes may be “On Reserve.” These items are located at the Reserve Desk in the Orbach Science Library. Reserve materials are in high demand and may be checked
Computer Facilities
Computing facilities are available to students at several locations on campus. Availability, locations, and hours may be obtained at the following web site: cnc.ucr.edu/index.php?content=student_services/computer_labs.

Undergraduate Research Opportunities
The College of Natural and Agricultural Sciences strongly encourages undergraduates to pursue research opportunities. A major teaching strength of the College is its dedication to undergraduate research. A large percentage of UCR's science majors participate in either internships or undergraduate research, and a majority of UCR graduates go on to advanced degree programs. Though some students find research not as personally fulfilling as they may have envisioned, many are so captivated by their experiences that their career plans become focused on research. For others, laboratory or field research serves to strengthen their commitment to a scientific career. All who participate gain greater understanding of the processes that are fundamental to the advancement of scientific knowledge.

If you have an interest in carrying out a research project, there are several ways to go about it. Courses 197 and 199 in the CNAS departments are designed to introduce students to research while earning their academic credit. In these courses you will plan and conduct a research project, and submit a written report for completion of the course. The most important prerequisites are interest and enthusiasm. Do not worry about having a research project "mapped out" before approaching a faculty member or an advisor. Just pay attention to what interests you. Then, talk to a faculty member directly or seek advice from your advisor at the CNAS Undergraduate Academic Advising Center. Grants are available to help underwrite the cost of conducting a research project. Or you may be able to earn a salary or stipend while acquiring research experience through a summer research program.

California Alliance for Minority Participation in Science, Technology, Engineering and Mathematics (CAMP-UCR) http://camp.ucr.edu

CAMP-UCR is available to students designated as Minorities by the National Science Foundation guidelines. You must have a declared major in the College of Engineering or the College of Natural and Agricultural Sciences. CAMP participants are selected from among the traditionally underrepresented students of color which include African-Americans, Chicano, Latinos, Native-Americans, and Native Pacific Islanders.

CAMP-UCR provides:
- Research opportunities (upper division students)
- Faculty and Peer mentoring
- Seminars given by distinguished faculty members and UCR alumni
- Social activities
- Networking opportunities
- Funds to travel to meetings
- Assistance in applying to graduate school

Contact Information, Coordinator: Ms. Maria Franco-Aguilar
- Email: maria.franco@ucr.edu, Phone: (951) 827-3680
- Director: Dr. Richard Cardullo Email: richard.cardullo@ucr.edu

STEM Pathway Program

The UC Riverside STEM Pathway Program is funded by the Hispanic Serving Institutions (HSI) Program through the United States Department of Education, and provides mentoring, career counseling, skills-building workshops and paid research opportunities to instill confidence and ensure student success in STEM majors. The grant is aimed to better prepare and transition both current and community college transfer students at 4-year institutions and to enhance support more generally for Hispanic and low-income students at UCR who are pursuing bachelor’s and advanced degree programs in fields of science, technology, engineering and mathematics (STEM). For more information visit cnas.ucr.edu/stempathway.

Field Research Opportunities
UCR administers a large component of the UC Natural Reserve System. The eight reserves, most within 60 miles of campus, offer students and faculty a diverse array of habitats for long or short term field study. Many faculty take students out to different reserves for field trips in courses such as animal behavior or botany. Some undergraduates have pursued individual projects on the reserves. Additionally, ask your professors about the possibility of a field excursion to one of the reserves, or ask the campus reserve director about research opportunities. Find more information at www.biology.ucr.edu/about_us/nrs.html.

CNAS Freshman Scholars Program
The CNAS Freshman Scholars Learning Community Program is the college’s first year learning community program. CNAS freshmen who place into any credit bearing UCR mathematics course and expect to enroll in a Chemistry course in their first quarter can join this program. CNAS Freshman Scholars has been shown to provide the structure, support and resources necessary to enable our freshmen to earn better grades, stay on track for four-year graduation, and report a higher rate of satisfaction with their freshmen year experience. Students who join the CNAS Freshman Scholars Learning Community Program are enrolled into two academic courses each quarter for the entire freshmen year with a cohort of no more than 24 students who all share common academic goals and skills. The students in each learning community cluster get to know each other, become friends, study together and excel together in the rigorous CNAS first year curriculum. Students who complete the one-year program are eligible to apply for stipend-supported research opportunities working with tenure-track UCR faculty the summer following their freshmen year, pending available funding. For more information regarding the CNAS Freshmen Scholars Program, please contact the Coordinator, Dr. Scott Silverman at cnascholars@ucr.edu.

Preparation for the Health Professions
The Health Professions Advising Center (HPAC) provides students with guidance and support in preparation for medical and other professional health careers:
- Provide topical workshops and presentations on preparing for medical and health careers
- Facilitate the Health Professions Advising Center Peer Mentoring Program to match freshman pre-health students with successful upper classmen
- Provide information about opportunities for scholarly and other extracurricular projects
- One-on-one advising for pre-professional preparation
- Determine appropriate career paths based on individual assets
- Foster a collaborative and supportive environment for all students interested in medical and health careers
- Provide an evaluation for all qualified students from a Pre-Med/Pre-Health Committee
For more information, please visit their website at hpac.ucr.edu or visit the Health Professions Advising Center Office at 1114 Pierce Hall.

**California Teach Science/Mathematics Initiative**
The California Teach Science/Mathematics Initiative (CaTEACH-SMI) is a UC systemwide initiative created by an agreement between the Governor of California and the University of California President. CaTEACH-SMI's mission is to increase the number of highly qualified teachers in California science and mathematics classrooms. Students with a talent for science, math, or engineering can translate that ability into preparing for a teaching career in California through CaTEACH-SMI. Students who partner with CaTEACH-SMI can complete a science, engineering, or mathematics degree while at the same time establishing eligibility towards entrance into an intern teaching credential program. Beginning as early as the freshman year, CaTEACH-SMI provides students with the opportunity to intern in a local primary or secondary classroom with a mentor teacher. This opportunity gives students an introduction to schools and teaching as a profession, cultural diversity, education, and educational psychology. CaTEACH-SMI encourages students to engage in peer-mentorship opportunities to develop and enrich their professional networking systems. Students can meet with a CaTEACH-SMI advisor to discuss and prepare for career planning and credential program requirements. For more information contact smi@ucr.edu or visit the SMI Resource Center at 1315 Pierce Hall or smi.ucr.edu.

**Academic Support Services**

The **Academic Resource Center** provides a variety of classes, tutoring, workshops, seminars, and individualized programs in reading, mathematics, study skills, and test taking. Information, appointments, and class enrollment may be obtained at the Academic Resource Center located in the Surge Building, Room 156 or by calling (951) 827-3721. Additional information can be found on their website at arc.ucr.edu.

- **Academic Assistance** via the Tutorial Assistance Program and Supplemental Instruction.
- **Study skills seminars**
- **Preparation for qualifying exams** (MCAT, GRE, LSAT, etc.)
- **Individual peer counseling** for academic and personal challenges
- **Speed Reading classes**

The **Career Center** provides assistance to undergraduates and graduate students in choice of major and career decision making, internship/cooperative education placement, graduate and professional school application, and job search. Located in the northwest wing of the Veitch Student Center, it is open year-round. For more information, please visit their web site at careers.ucr.edu.

**Student Health Services** are available in the Veitch Student Center building, which is located in the northeast area of campus between the residence halls. There is a complete health center, including laboratory and X-ray services. It is open Monday through Friday during scheduled hours when school is in session. Students may be seen by appointment or on a “walk-in” basis in the general clinic. Appointments are necessary for the numerous specialty clinics. Emergency treatment, some routine dental care, and vision care are also available. Visit campushealth.ucr.edu for more information.

**The Counseling Center** exists to help students acquire the personal skills, self knowledge, and psychological resources that will enhance their university experience in terms of developing their full potential as students and as emotionally healthy people. Group and private counseling is available.

Services to students are free and confidential. The Center is located in the Veitch Student Center with entrance off the rear parking lot.

Appointments can be scheduled by calling (951) 827-5531. Office hours are from 8 a.m. to 5 p.m., Monday through Friday. If the need is urgent, a staff member can be available for consultation immediately. After hours emergency help can be obtained by calling the UCR Police at (951) 827-5222 or the Counseling Center at (951) 827-5531. Visit counseling.ucr.edu for more information.

The **Ombudsperson** is responsible for receiving complaints from any member of the University community, for investigating and attempting resolution of complaints, and for recommending changes in University policy and procedure when appropriate to prevent further similar complaints. All matters are treated confidentially. No action is taken without consent of the complainant. The office is located at 349 Surge Building. The campus Ombudsperson can be reached at (951) 827-3213.

**Students Guide to Riverside**

Stomping Grounds is one of the most useful student orientated tools ever made. It is more than just a guide; it is a window to a Riverside you never knew existed. With it you can overcome the hardships of not knowing where to eat in the midst of your busy schedule, or set a new gold standard for a great date, but most importantly, you can step out of your dorm room to socialize with friends who, like you, are ready to explore the excitement of Riverside. Please access your copy of “Stomping Grounds” at http://www.riversideca.gov/sqg/

**University Village**

Located directly across from the University of California Riverside Extension Center, the “UV” has everything a student needs including several restaurants, Regency Cinema, Schools First Credit Union, Starbucks, 7-11, T-Mobile, and much more. Stop by and see what the University Village can do for you.

**Canyon Crest Towne Center**

Canyon Crest Towne Centre is a 30-year old community shopping center, located on a 22-acre site, in the heart of Riverside. The center is anchored by a 43,000 square foot Ralph’s “Fresh Fare” gourmet supermarket, Rite Aid Pharmacy, Canyon Crest Athletic Club, and over 80,000 square feet of additional retail shops. Customers enjoy the peaceful atmosphere which is accented with trees, water features, and best of all, the personal attention from our business and shop owners. Visit www.cctownecentre.com for more information about shops and events.

**PARKING AND TRANSPORTATION SERVICES**

**Riverside Transit Agency**

Students at UC Riverside can ride the bus for FREE just by swiping their UCR Card. Not only is the bus a great way to get to class, it’s also a no-cost way to get to work, shopping, the movies or anywhere else RTA buses go. For schedule and route information, contact us at (800) 800-7821 or visit http://www.riversidetransit.com/home/ for schedule and route information.

**Parking Services**

Every vehicle, unless otherwise exempt; must display a valid parking permit when parking on UCR property. All vehicles must be parked in parking spaces, except in parallel parking spaces. All vehicles must park with the flow of traffic. Please visit parking.ucr.edu for a full list of parking regulations as well as information on purchasing a parking permit.
ACADEMIC INTEGRITY

Academic integrity is at the heart of values fundamental to the pursuit of knowledge. The university community—faculty and students alike—places a high value on individual accomplishment with integrity. For these reasons faculty believe that most students maintain high standards of academic integrity. However, occasionally, incidents of academic dishonesty occur at UCR. Sometimes, these acts occur out of student ignorance of what constitutes an academically dishonest act. When this happens, a student who is accused of cheating may deny the accusation, claiming that he or she did not know the act was not allowed. Nonetheless, academic dishonesty of any kind is anti-ethical to the purpose and mission of the entire university.

The following statements are intended to clarify what constitutes an academically dishonest act. Faculty in the College of Natural and Agricultural Sciences may refer to these definitions in their courses so that students will know which activities are not tolerated. Students are responsible for knowing that these activities are academically dishonest and that there are consequences for participation in these actions. See the current Schedule of Classes for the University of California, Riverside Policies Official Notice to Students Regarding University's Policies applying to Campus Activities, Organizations, and Students and Campus Regulations, Sections 102.02, 102.24, and 105.01 for more information about these and the grading procedures governing academic dishonesty and other consequences of this act.

Academic Dishonesty Defined

Cheating: It is cheating to copy from another student's examination, quiz, laboratory work, or homework assignment. The use of pre-prepared notes or other resources, in any form, during an examination, unless such use is expressly authorized by the instructor, also constitutes cheating. If a student knowingly allows someone else to copy from his or her homework, laboratory work, quiz, or examination, he or she is in violation of section 102.01-24 of the policies. Revising a work after its final evaluation and representing the revised version as being the original work is cheating. Forging or otherwise unauthorized changing of an earned grade also is academically dishonest.

Any form of interfering with another student's academic work is a form of cheating. When one student arranges for another student to take an examination using the first student's identification, that also constitutes an act of cheating. In this last instance, both parties are liable. Unauthorized acquisition of an examination prior to the exam date is cheating.

Plagiarism: According to Webster's Dictionary, plagiarism is the act of stealing and passing off as one's own the ideas or words of another. The instructor will pay attention not to whether the student meant to plagiarize, but whether plagiarism did occur. Additionally, submitting the same paper twice or fulfilling the requirements of two subjects with one paper is academically dishonest. Students may use the ideas and words from other sources, but must document their use with citations, usually in the form of footnotes, endnotes, or text notes. By citing sources, students indicate the extent of their research, thereby improving the paper.

Manufacture of Data: It is academically dishonest to manufacture or deliberately alter data submitted in connection with laboratory reports, term papers, or written material. Not only is this practice dishonest, it undermines the entire academic and scholarly process.

Unauthorized Collaboration: Collaboration occurs when a student works with other students to do lab work, review books, or develop a presentation or report. Students must receive very clear permission from the instructor to participate in collaborations. Unless otherwise authorized, lab work done in pairs or groups is collaborative only up to and including the data collection part. All data must be analyzed and written up individually. All members of a pair or group must be present when the data is collected. A student not in lab who copies someone else’s lab data and then writes the lab up on the basis of the copied data is cheating, as is the student who makes the data available outside the lab to copy. Unauthorized collaboration is an example of an academically dishonest act. What one instructor may view as collaboration may be seen as cheating by another. The important thing to note is that if the limits of collaboration are not clear, it is the student's responsibility to ask the instructor for very clear and specific direction.
<table>
<thead>
<tr>
<th>Majors in the College of Natural and Agricultural Sciences *</th>
<th>If you major in...</th>
<th>You can...</th>
<th>In the Dept(s) of...</th>
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<tbody>
<tr>
<td>Biochemistry</td>
<td>Emphasize biology for broad training in the natural sciences, emphasize chemistry for training in the chemical and physical aspects of biological compounds. Emphasize Medical Sciences to achieve a sound major in Biochemistry and to be well prepared for the various Professional School Admissions Tests (medical MCAT, dental, optometry, pharmacy, osteopathy, and veterinary tests).</td>
<td>Biochemistry</td>
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<tr>
<td>Biology</td>
<td>Choose a selection of upper-division (junior/senior) courses that provide the following: (1) studies in a breadth of fields in biology; (2) specialization in a field such as cell and molecular biology, animal behavior, development, ecology and population biology, molecular genetics, organizational genetics, zoology, or physiology; (3) preparation for pre-professional programs leading to graduate study and careers in teaching, medicine, dentistry, pharmacy, optometry, other health related fields, and veterinary medicine.</td>
<td>Biology</td>
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<tr>
<td>Cellular, Molecular and Developmental Biology</td>
<td>Study how genes and their products control cell function, and how cells interact to form tissues, organs, and organisms. Students can select between several courses of study, including a health sciences track, to obtain skills relevant to entering medical, graduate, and other professional schools, or careers in public health, teaching, and the biotechnology industry.</td>
<td>Cell Biology &amp; Neuroscience and Psychology</td>
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<tr>
<td>Chemistry</td>
<td>Learn the deepest secrets of molecules and their interactions while preparing for a career in industry, government, education, or profession such as medicine, dentistry, pharmacy, or law. The major offers degree options in Chemical Physics and Environmental Chemistry.</td>
<td>Chemistry</td>
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<tr>
<td>Entomology</td>
<td>Take classes from, and work in the laboratories of world-renowned scientists as you learn about the fascinating world of insect science. This will prepare you for a variety of careers including the management of insect pests important in agriculture, urban regions, veterinary science, medicine, and public health, research on insects as a vital part of natural ecosystems, and the study of insect physiology, biochemistry, and molecular entomology.</td>
<td>Entomology</td>
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<tr>
<td>Environmental Sciences</td>
<td>Gain the knowledge and skills that enable you to pursue a career in natural resource management, air and water quality control, urban and regional planning and environmental restoration. Federal, state and local government agencies as well as private companies that are engaged in protecting and enhancing environmental quality need professionals with the inter disciplinary training provided by the Environmental Sciences major.</td>
<td>Environmental Sciences</td>
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<tr>
<td>Geology</td>
<td>Many geologists work with government agencies and civil engineering companies to mitigate natural environmental hazards by analyzing earthquake faults, landslides, flood plains, and volcanoes. Rocks are natural mineral resources and some serve as reservoirs for water, gas, and oil; so other geologists are employed in the mining and petroleum industries and by water companies. Because rock and fossils also record ancient life forms and environmental changes on Earth, academic geologists are the primary investigators of Earth's prehistory and find employment as teachers and museum scientists who interpret the findings for the public.</td>
<td>Earth Sciences</td>
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<tr>
<td>Geophysics</td>
<td>Geophysicists use measurements and numerical models of Earth's physical properties (such as gravity, magnetism, electrical currents, heat flow, and earthquake waves) to probe below the surface to depths from which it is very expensive or impossible to recover the rocks themselves. Thus, they reconstruct the interior workings of the planet and are indispensable aids to companies and agencies that prospect for natural resources. Geophysicists in government agencies provide some of the most insightful data for predicting the timing of volcanic eruptions and the risk of earthquakes.</td>
<td>Earth Sciences</td>
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<tr>
<td>Geoscience Education</td>
<td>Prepare to teach Earth Science and General Science at the secondary school level. Receive Freshman-level training in Biology, Chemistry, Calculus, and Physics and Sophomore-level training in Geology. Also complete courses in Education required for the State of California teacher credentials.</td>
<td>Earth Sciences</td>
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<tr>
<td>Mathematics</td>
<td>Gain knowledge and skills to prepare you as a mathematician in pure mathematics or applied mathematics. The diverse program options can provide the basis for careers in mathematics itself or within the many scientific and business fields, which in today's technological society are dependent upon a basic knowledge of mathematical methods.</td>
<td>Mathematics</td>
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<tr>
<td>Mathematics for Secondary School Teachers</td>
<td>Prepare to teach Mathematics at the secondary school level. Math courses cover high school curriculum from an advanced perspective. Complete Mathematics education and Education courses to facilitate classroom internships and entry into teaching credentialing programs.</td>
<td>Mathematics</td>
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<tr>
<td>Microbiology</td>
<td>Gain fundamental knowledge and skills that will enable you to pursue a career in medicine, agriculture, biotechnology and environmental fields. Students earning this degree will also be prepared to continue studies at the graduate level, earn teaching credentials, or enter professional schools in medicine, pharmacy, optometry, dentistry, and veterinary medicine, among others.</td>
<td>Plant Pathology and Microbiology</td>
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<tr>
<td>Neuroscience¹</td>
<td>Work in a laboratory research setting in industry, academia or government; work in pharmaceutical or biotechnological sales; or be a teacher in K-12 education. The neuroscience degree also prepares you to enter all allied health professions including (but not limited to) medicine, dentistry, optometry, pharmacy and public health. Alternatively, you can use your degree to enter graduate school and pursue a career as a college professor and/or research scientist. Neuroscience emphasizes the functioning of nervous systems at the molecular, cellular, system, behavioral, and cognitive levels.</td>
<td>Cell Biology &amp; Neuroscience and Psychology</td>
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<tr>
<td>Physics</td>
<td>Learn how to model and analyze physical data in preparation for a technical or professional career in industry, government, or higher education. Diverse industries such as advanced electronics, computing and communications, lasers and microwave devices, aerospace, nuclear and conventional medicine, material sciences, and engineering disciplines employ physicists in positions ranging from research and development to marketing and sales. Additional training provides careers in academia at both the high school and college levels. The degree also prepares you for further education in graduate and professional schools.</td>
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<tr>
<td>Plant Biology</td>
<td>Emphasize plant cellular and molecular biology; organismal botany/plant sciences; ecology, agriculture, and natural resources; or plant pathology/nematology to prepare for teaching, research, and other careers in basic and applied plant biology and ecology; medical fields; biotechnology; agricultural extension, consultation or management; botanic garden, nursery, landscape, and turfgrass management; crop production and protection; and many related botanical and agricultural industries.</td>
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<tr>
<td>Statistics</td>
<td>Learn Statistical science by dealing with the methods of collecting pertinent information and analyzing the collected information in the presence of noise. A Statistics major will prepare you for a career in business, government, and industry as well as research and teaching.</td>
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Physics & Astronomy

Botany & Plant Sciences, Nematology, and Plant Pathology

For more details, see the College publication, "Selecting A Major".

The Neuroscience major is offered jointly by the College of Natural and Agricultural Sciences and the College of Humanities, Arts, and Social Sciences.
College of Natural and Agricultural Sciences B.S. Breadth Requirements

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Grade Earned</th>
<th>Quarter</th>
<th>Units Earned</th>
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<tbody>
<tr>
<td>ENGLISH (12 UNITS)</td>
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<tr>
<td>ENGL001A</td>
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<td>ENGL001B</td>
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<tr>
<td>ENGL001C (or ENGL01SC)</td>
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**HUMANITIES (12 UNITS)**

One (1) 4-unit course from the following:
- World History 10, 15, or 20

One (1) 4-unit course from the following:
- Fine Arts (Art, Art History, Creative Writing, Dance, Music; Theatre), Literature, Philosophy, Religious Studies

One (1) additional 4-unit course from the subjects listed above:

**SOCIAL SCIENCES (12 UNITS)**

One (1) 4-unit course from the following:
- Economics, Political Science

One (1) 4-unit course from the following:
- Anthropology, Psychology, Sociology

One (1) additional 4-unit courses from the subjects listed above:

*Note: The Neuroscience major requires 4 additional units both in the Humanities and Social Science areas.

**ETHNIC STUDIES (4 UNITS)**

One (1) 4-unit Ethnic Studies course

*Note: The course used to fulfill the Ethnic Studies requirement can simultaneously be included in either the Humanities or Social Sciences area, but not both.

**BIOLOGICAL SCIENCES (4 UNITS)**

One (1) 4-unit course (with labs) from the following:
- Biochemistry, Biology, Entomology, Embryology, Botany, and Plant Sciences, or Plant Pathology and Microbiology

**MATHEMATICS (4 UNITS)**

One (1) 4-unit course from the following:
- Mathematics, Statistics, or Computer Science

**PHYSICAL SCIENCE (4 UNITS)**

One (1) 4-unit course from the following:
- Chemistry, Physics, or Geology

Two (2) additional 4-unit courses from Biological or Physical Sciences:

*Note: The Biological Science, Mathematics, Physical Science and additional science requirements will be primarily met by major requirements.

Typical courses used to fulfill breadth requirements:

**HUMANITIES:**

Note: No more than two (2) courses in performance may be counted toward the Humanities requirement.

**Fine Arts:**
- Art (ART) 1, 2, 3, 4 (performance) 5, 6, 9, 15, 66
- Art History (AHS) 7, 8, 10, 15, 17A, 17B, 17C, 21, 23, 27, 28
- Asian Studies (AST) 22, 23, 47
- Creative Writing (CRWT) 12, 40, 41, 43, 46S, 56, 57A, 57B, 57C, 66
- Dance (DNCE) 5 (performance) 5, 7, 14, 19
- Latin American Studies (LNST) 15, 16, 17, 28
- Media & Cultural Studies (MCS) 1, 4, 5, 6, 9, 10, 15, 20, 21, 22, 24, 36, 38, 47, 66
- Music (MUS) 1, 2, 3, 5, 6, 8, 9, 10, 14, 15, 16, 17, 18, 20, 30A, 30B, 30C
- Theater (THEA) 10 (performance) 21, 50, 66, 67

**Literature:**
- Art History (AHS) 30
- Asian Studies (AST) 62, 63
- English (ENG) 12A, 12B, 12C, 12D, 12 E-Z thru 22
- Classics (CLA) 10A, 10B, 10C, 40, 45, 50
- Comparative Literature (CPLT) 1 or 1W, 2, 12, 15, 17A, 17B, 17C, 21, 22A, 22B, 23, 24, 25, 27, 38, 62, 63

**Philosophy:**
- Philosophy (PHIL) 1, 2, 3, 3W, 3X, 4, 5, 6, 7, 8, 9, 9H, 30I

**Religious Studies:**
- Religious Studies (RLST) 2, 3, 5, 7, 7W, 10, 12, 12W (same as ETST12, 12W), 14, 15, 44

**Additional courses that can be used for the unspecified portion of the Humanities Requirement:**
- Asian Studies (AST) 30, 40, 45E-Z, 65
- Classics (CLA) 20, 30
- Ethnic Studies (ETST) 1, 3, 4, 5, 7, 8, 12, 12W (same as RLST12, 12W), 14
- Foreign Language (For B.S. at level 3 or above; For B.A. at level 4 or above)
- Global Studies (GBST) 1
- History (HIST) 1, 4, 17A, 17B, 30, 35, 36, 40W, 44, 44W, 45E-Z, 51, 52S, 60, 75, 75V, 99W
- Linguistics (LING) 20, 21
- Southeast Asian Studies (SEAS) 47, 62, 65, 63
- Urban Studies (UKST) 10, 14, 21
- Women's Studies (WMS) 10, 20, 22A, 22B

**SOCIAL SCIENCES:**
- Economics (ECON) 2, 3, 6 (Same as ENSC 6)
- Political Science (POSC) 5, 3W, 7, 10, 15, 17, 20
- Anthropology (ANTH) 1, 1W, 2, 3, 5, 6, 10, 12, 20, 27
- Psychology (PSYC) 1, 2, 13, 19
- Sociology (SOC) 1, 1H, 2E-Z, 3, 3H, 4, 5, 10, 11, 15, 20, 28, 30, 31, 35, 36, 40, 41

**Additional courses that can be used for the unspecified portion of the Social Science Requirement:**
- Ethnic Studies (ETST) 1, 2, 3, 5, 7, 12, 12W
- Environmental Sciences (ENSC) 5 (same as ECON6)
- Humanities & Social Sciences (HASS)
- Global Studies (GBST) 1, 2
- PBPL 1
- Women's Studies (WMS) 1, 11, 20, 30
**College of Natural and Agricultural Sciences B.A. Breadth Requirements**

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**ENGLISH (12 UNITS)**

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</table>

**HUMANITIES (20 UNITS)**

One (1) 4-unit course from the following:
- World History 10, 15, or 20

One (1) 4-unit course from the following:
- Fine Arts (Art, Art History, Creative Writing, Dance, Music, Theatre)

Two (2) 4-unit courses from the following:
- Literature, Philosophy, Religious Studies

One (1) additional 4-unit course from the subjects listed above.

**SOCIAL SCIENCES (16 UNITS)**

One (1) 4-unit course from the following:
- Economics, Political Science

One (1) 4-unit course from the following:
- Anthropology, Psychology, Sociology

Two (2) additional 4-unit courses from the subjects listed above.

**ETHNIC STUDIES (4 UNITS)**

One (1) 4-unit Ethnic Studies course

**Note:** The course used to fulfill the Ethnic Studies requirement can simultaneously be included in either the Humanities or Social Sciences area, but not both.

**FOREIGN LANGUAGE(6) PROFICIENCY**

Level 4 in one language or level 2 in two languages

**BIOLOGICAL SCIENCES (4 UNITS)**

One (1) 4-unit course (with lab) from the following:
- Biochemistry, Biology, Entomology, Nematology, Botany and Plant Sciences, or Plant Pathology and Microbiology

**MATHEMATICS (4 UNITS)**

One (1) 4-unit course from the following:
- Mathematics, Statistics, or Computer Science

**PHYSICAL SCIENCE (4 UNITS)**

One (1) 4-unit course from the following:
- Chemistry, Physics, or Geology

Two (2) additional 4-unit courses from Biological or Physical Sciences:

**Typical courses used to fulfill breadth requirements:**

### HUMANITIES:

*Note: No more than two (2) courses in performance may be counted toward the Humanities requirement.*

**Fine Arts:**
- Art (ART) 1, 2, 3, 4 (performance) 5, 6, 7, 9, 65, 66
- Art History (AHS) 7, 8, 15, 17A, 17B, 17C, 21, 27, 28
- Asian Studies (AST) 22, 25, 47
- Creative Writing (CJWT) 12, 40, 41, 43, 46A, 46B, 46C, 56, 57A, 57B, 57C, 66
- Dance (DNCE) 5 (performance) 7, 14, 19
- Latin American Studies (LNST) 15, 16, 17, 28
- Media & Cultural Studies (MCS) 1, 4, 5, 6, 9, 10, 15, 20, 21, 22, 24, 36, 38, 47, 66
- Music (MUS) 1, 2, 3, 5, 6, 8, 9, 10, 14, 15, 16, 18, 20, 30A, 30B, 30C
- Theater (THEA) 10 (performance), 21, 50, 66, 67

**Literature:**
- Asian Studies (AST) 62, 63
- English (ENGL) 12A, 12B, 12C, 12D, 12 E-Z thru 22,
- Classics (CLA) 10A, 10B, 10C, 40, 45, 50
- Comparative Literature (CPLT) 1 or 1W, 2, 12, 15, 17A, 17B, 17C, 21, 22A, 22B, 23, 24, 25, 27, 28, 62, 63

**Philosophy:**
- Philosophy (PHIL) 1, 2, 3, 3W, 3X, 4, 5, 6, 7, 8, 9, 10, 31

**Religious Studies:**
- Religious Studies (RLST) 2, 3, 5, 7, 7W, 10, 12, 12W (same as ETST12, 12W), 14, 15, 44

**Additional courses that can be used for the unspecified portion of the Humanities Requirement:**
- Asian Studies (AST) 30, 40, 45E-Z, 65
- Classics (CLA) 20, 30
- Ethnic Studies (ETST) 1, 2, 3, 4, 5, 7, 8, 12, 12W (same as RLST12, 12W), 14
- Foreign Language (For B.S. at level 3 or above; For B.A. at level 4 or above)
- Global Studies (GBST) 1
- History (HIST) 1, 4, 17A, 17B, 30, 35, 36, 40W, 44, 44W, 45E-Z, 51, 52, 60, 75, 75V, 99W
- Linguistics (LING) 20, 21
- Southeast Asian Studies (SEAS) 47, 62, 65, 63
- Urban Studies (URST) 10, 14, 21
- Women's Studies (WMST) 10, 20, 22A, 22B

**SOCIAL SCIENCES:**

- Economics (ECON) 2, 3, 6 (same as ENSC 6)
- Political Science (POSC) 5, 7W, 10, 15, 17, 20
- Anthropology (ANTH) 1, 1W, 2, 3, 5, 6, 10, 12, 20, 27
- Psychology (PSYC) 1, 2, 13, 49
- Sociology (SOC) 1, 1H, 2E-Z, 3, 3H, 4, 5, 10, 15, 20, 28, 30, 31, 35, 36, 40, 41

**Additional courses that can be used for the unspecified portion of the Social Science Requirement:**

- Ethnic Studies (ETST) 1, 2, 3, 5, 7, 12, 12W
- Environmental Sciences (ENSC) 6 (same as ECON6)
- Humanities & Social Sciences (HASS)
- Global Studies (GBST) 2
- Women's Studies (WMST) 1, 11, 20, 30
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Although this publication was prepared on the basis of the best information available, all information herein is subject to change or elimination without notice.
## Alphabetical Legend

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<tr>
<td>Administration</td>
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<tr>
<td>Agricultural Operations</td>
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<td>Alumni &amp; Visitors Center</td>
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<td>Anderson Hall (SoBi, AGSM) 1 &amp; 2</td>
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<td>Arts 166 Performance Lab</td>
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<td>Bell Tower</td>
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<tr>
<td>Biological Teaching Complex</td>
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<td>Brey Hall</td>
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<td>Breydon Laboratory</td>
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<td>Campus Surge</td>
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<td>Campus Tours (Student Services Building)</td>
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<td>Computer Lab</td>
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<td>Cottage</td>
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<td>Entomology</td>
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<td>Greenhouses</td>
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<td>Headhouse (Greenhouses)</td>
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<td>Highlander Union Bldg/Plaza (Hub)</td>
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<td>Library, Rivera</td>
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<tr>
<td>USIA Study Abroad</td>
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<td>Watkins Hall</td>
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<td>Watkins 1000</td>
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<td>Wheeler Hall</td>
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## Colleges and Schools

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<td>School of Medicine (SDM)</td>
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## Top UCR Destinations

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<td>Hub (Highlander Union Bldg)</td>
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<tr>
<td>Orbach Science Library</td>
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<td>Rivera Library</td>
<td>E5-6</td>
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<tr>
<td>Student Recreation Center</td>
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<tr>
<td>University Theatre</td>
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