

Statistics BS / Statistics MS Five Year Combined-Degree Program

February 2020

Proposed by the Faculty of
the Statistics Department
College of Natural and Agricultural Sciences
University of California, Riverside
Riverside, CA 92521

Catalog entry

Joint B.S.+1 Statistics M.S. Program

The College of Natural and Agricultural Science offers a combined B.S.+1 Statistics M.S. program, designed to allow successful B.S. graduates who have taken some graduate level statistics courses in their senior standing year in UCR to complete the Master of Science degree in Statistics in one year, by allowing up to 12 units of graduate level coursework taken in UCR as an undergraduate to be counted towards the MS degree requirements.

A student should apply for the B.S.+1 Statistics M.S. program (including transfer students) before the start of their senior standing year. To apply, the student must have a cumulative GPA at least 3.0 overall, 3.3 GPA in the statistics major, and have completed STAT 160ABC or equivalent. These are minimum requirements and do not guarantee the admission. The application to the B.S.+1 M.S. program must include a transcript, and at least two recommendation letters. Submission of GRE scores with the application is recommended but not required. During students' senior year, students must apply via the Graduate Division for the M.S. portion. Matriculation into the graduate portion of the B.S.+1 M.S. program occurs in the Fall term following their final year, provided: (a) the M.S. application is accepted, (b) throughout the final undergraduate year at UCR the student has a cumulative GPA 3.0 or higher, (c) by the end of senior standing year, the student completes the B.S. degree requirements.

Incoming freshman students who apply to the Statistics B.S. program may simultaneously apply for preliminary conditional admission into the B.S.+1 Statistics M.S. program provided their high-school GPA is at least 3.6, their SAT-I combined score is at least 1250, they satisfy the Entry-Level Writing requirement prior to matriculation, and they are eligible to enroll in or to receive credit for MATH 7A or MATH 9A upon arrival or in their first quarter. they have sufficient math preparation to enroll in calculus upon arrival.

Preliminary conditional admission status is maintained as long as the student is a Statistics B.S. student in good standing with a cumulative GPA of at least 3.0. Conditionally admitted students still need to apply for full admission by the start of their senior standing year as described above and apply via the Graduate Division for the MS portion. Continuing undergraduate students who meet the above criteria may apply to the program by submitting a petition and should confer with their staff advisor for details.

To earn the MS degree, students are required to complete a minimum of 41 units that must include STAT 201A, 201B, 201C, STAT 202A, 202B, 202C, STAT 206, STAT 208, STAT 288, and two quarters of STAT 293, and pass the written exam. No more than 12 units earned prior to matriculation to graduate status can be applied towards the MS degree requirements. (The courses that can be double counted are those that are must be graduate level courses and be eligible to be counted as electives in the B.S. requirements). Students receive credit toward the 41 units by completing STAT 201ABC (recommended) or some other graduate level courses, approved by the graduate advisor, as an undergraduate senior.

Comprehensive Examination

All M.S. students are required to take a written comprehensive examination and pass at the M.S. level, with no more than two attempts allowed to pass. A program proposal is not required.

Advancement to Candidacy

Advancement for the master's candidacy occurs at the beginning of the quarter the student plans to graduate. Advancing to candidacy takes place when students complete all the course requirements and pass the written exam.

Professional Development

Students in the Statistics B.S.+1 M.S. Program must register two quarters of STAT 293, which give students training in (a) the ability to use fundamental statistical techniques to formulate problem and solution in diverse real-world application; (b) the ability to use at least one statistical software package to conduct statistical data analysis; (c) the ability to communicate with researchers in statistical community and other disciplines by using graphical methods to display and interpret information.

Normative time

The normative time to B.S. is four years, and the normative time of the the MS portion is one year.

(five years total).The normative time for the B.S.+1 M.S. Program is five years and the normative time of the the MS portion is one year.

2. Program

Admission Criteria. The proposed 5-year joint BS/MS program in Statistics will have two timeframes for admission, one of which is for conditional admission: 1) preliminary conditional admission as an incoming lower division student, and 2) admission as a senior meeting admission criteria. The Statistics Department proposes to offer outstanding freshman the opportunity to apply for preliminary (conditional) admission into the joint BS/MS program in Statistics based on their undergraduate admission qualifications. This can serve as a recruiting tool as well as increase participation in the program. Official admittance (application via the graduate division) would still require meeting the course and GPA criteria and satisfactory progress in the undergraduate major.

Preliminary Conditional Admission Criteria

- High School GPA >3.6
- SAT 1 combined score > 1250
Satisfy Entry-Level Writing requirement prior to matriculation
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- Eligible to enroll in or to receive credit for MATH 7A or MATH 9A upon arrival or in their first quarter
- *Have sufficient math preparation to enroll in calculus upon arrival*

Official Admission Minimum Criteria (apply via the Graduate Division for the MS portion)

- Enrolled in the UCR Statistics Program
- Overall GPA 3.0 or higher
- Statistics major GPA 3.3 or higher
- Completion of STAT 160ABC sequence or equivalent

Joint BS/MS Degree Requirements. The BS program course requirements remain as currently outlined in the general catalog.

The MS requires a total of 41 units, and the course and examination requirements are the same as currently outlined in the general catalog for the regular MS program. More specifically, to earn the MS degree, students are required to complete a minimum of 41 units that must include STAT 201A, 201B, 201C, STAT 202A, 202B, 202C, STAT 206, STAT 208, STAT 288, and two quarters of STAT 293. No more than 12 units earned prior to matriculation to graduate status can be applied towards the MS degree requirements. Students receive credit toward the 41 units by completing STAT 201ABC (recommended) or some other graduate level courses, approved by the graduate advisor, as an undergraduate senior.

During the MS portion of the program, students must maintain a GPA (both overall and in the major) of at least 3.0 for all coursework. If the GPA falls below 3.0, they may be dropped from the program.

Additional requirements are successfully passing a written comprehensive examination.

Sample BS/MS Degree Program. The following table outlines a sample program for a students in the proposed joint BS+MS program in Statistics. Graduate courses STAT 201ABC taken prior to matriculation to graduate status will double count towards the BS and the MS degree requirements.

Sample Joint BS/MS Course Plan

	FALL	WINTER	SPRING
1ST YEAR	ENGL 1A, MATH 9A (4) CS 010 (4) H/SS Breadth (4) 16 UNITS	ENGL 1B (4) MATH 9B (4) STAT 100A (5) Biological Science w/lab (4) 17 UNITS	MATH 9C (4) MATH 010A (4) STAT 100B (5) ENGL001C (4) 17 UNITS
2ND YEAR	MATH 31 (4) Physical Science Breadth (4) STAT 147 (4) H/SS Breadth (4) 16 UNITS	STAT 157 (4) H/SS Breadth (4) Upper division STAT (4) Elective (4) 16 UNITS	Upper division STAT (4) H/SS Breadth (4) H/SS Breadth (4) Elective (4) 16 UNITS
3RD YEAR	STAT 160A (4) Upper division STAT (4) H/SS Breadth (4) Elective (4) 16 UNITS	STAT 160B (4) Upper division STAT (4) H/SS Breadth (4) Elective (4) 16 UNITS	STAT 160C (4) H/SS Breadth (4) Elective (4) 12 UNITS
4TH YEAR	H/SS Breadth (4) STAT 170A (4) Elective (4) STAT 201A (4) 16 UNITS	STAT 170B (4) Elective (4) STAT 201B (4) 12 UNITS	STAT 171 (4) STAT 183 (4) STAT 201C (4) 12 UNITS
5TH YEAR (MS)	STAT 202A (4) STAT 206 (4) STAT 293A (4) 12 UNITS	STAT 202B (4) STAT 293B (4) STAT 200 Elective (4) STAT 288 (1) 13 UNITS	STAT 202C (4) STAT 208 (4) STAT 291 (4) 12 UNITS

Normative time from matriculation to degree. Five years.