

DEPARTMENT OF MATERIALS

FIVE-YEAR COMBINED BS/MS PROGRAM

What is the BS/MS Program?

The program allows outstanding students to concurrently pursue a Bachelor of Science degree in Engineering, and a Master of Science degree in Materials, and to complete graduation requirements for both degrees within 5 years.

Who is Eligible to Apply?

Applicants must meet the following requirements in order to qualify for admission:

- Eligible applicants are in their third year.
- A minimum overall GPA of 3.2 at the end of their third year, with a 3.5 minimum GPA in Engineering courses.
- Receive a B minimum in each of the undergraduate Materials core courses (Matrl100A, Matrl 100B and Matrl 100C).
- A GRE score with a minimum of 85% in the Quantitative portion and performance in the verbal and writing sections comparable to the Materials Department entry class in the previous academic year.

Prior to the start of their third year (or in the quarter when the student achieves Junior status), candidates should arrange for a meeting with one of the Materials Department's BS/MS advisors to discuss their interests, academic goals, and program requirements:

Chemical Engineering.....Professor Rachel Segalman
Electrical Engineering.....Professor Chris Palmstrom
Mechanical Engineering.....Professor Carlos Levi

Second Year

- Spring quarter: Attend BS/MS information session
- Notification to Undergraduate Major Department Office of student's interest in BS/MS program
- Meetings with the Materials Department Graduate Program Coordinator and appropriate BS/MS advisor

Third Year

- Fall: Matrl 100A; Winter: Matrl 100B; Spring: Matrl 100C
- Winter: Take GRE
- Spring: Submission of application to the Materials Graduate Program Coordinator for admission to the BS/MS Program
- Summer: Departmental admission decision by late August

Fourth Year

- 6 units of approved undergraduate electives with Materials content, to be counted toward the BS degree (Table II in BS/MS Brochure).
- One Materials graduate course per quarter
- Change to graduate status at the end of Spring quarter

Master's/Fifth Year

- Remaining Undergraduate Courses, if any.
- Matrl 200A (Fall) plus remaining Graduate Electives. Up to 6 units of additional undergraduate courses not applied already toward the BS degree can be taken as preparation or complement to graduate courses in the MS program (optional).
- Research Group Studies, Matrl 290 (3 units, one unit per quarter)
- Directed Reading and Research, Matrl 596 (3-6 units)
- Deliver Engineering Report based on Directed Reading and Research (Matrl 596) by Spring.

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How to apply

Submit the BS/MS application to the Materials Graduate Program Coordinator after the last quarter of your third year. The complete application packet includes:

1. **Application Coversheet**
2. **A Statement of Purpose:** Give a brief statement outlining your reasons for undertaking a graduate program, your particular area of specialization within the major field, your past academic work, and your plans for future occupation or profession. Also include any additional information that may assist the selection committee in evaluating your preparation and aptitude for graduate study at UC Santa Barbara.
3. **A Statement of Personal Achievements:** UC Santa Barbara is interested in a diverse and inclusive graduate student population. Please describe any aspects of your personal background, accomplishments, or achievements that you feel are important in evaluating your application for graduate study. For example, please describe if you have experienced economic challenges in achieving higher education, such as being financially responsible for family members or dependents, having to work significant hours during undergraduate schooling or coming from a family background of limited income. Please describe if you have any unusual or varied life experiences that might contribute to the diversity of the graduate group, such as fluency in other languages, experience living in bicultural communities, academic research focused on cultural, societal or educational problems as they affect underserved segments of society, or evidence of intention to use the graduate degree toward serving disadvantaged individuals or populations.
4. **A Resume or CV:** List your positions of employment or volunteer work/community service since high school, either full or part-time, including the hours per week worked and the nature and dates of employment or service.
5. **Three letters of recommendation:** Preferably from people able to judge the potential of the student for graduate studies. These people should ideally be faculty at UCSB or other higher education institutions who are familiar with the student's academic performance. Letters of recommendation should be mailed by post or electronic means directly by the recommender to the Materials Graduate Program Coordinator by the application deadline.
6. **Transcripts:** An unofficial copy of your transcript from UCSB printed through GOLD and all other post-secondary institutions attended.
7. **GRE Test Scores:** You must print your score report from the ETS website.
8. **A proposed BS/MS study plan.** The appropriate department undergraduate advisor must approve the BS portion. The BS portion of the plan must include the 6 units of approved departmental elective courses with materials content. Materials 100ABC cannot towards those 6 units (refer to Table II of BS/MS Brochure). This tentative schedule will allow you to visualize what your workload will potentially be like, as well as where you stand in regards to the completion of your BS degree.

Deadline for Fall admission:

Application must be submitted to the Graduate Program Coordinator by the last working day of July.

For More Information

If you have questions or want more information, please contact Jocelyn Guzman, Graduate Program Coordinator at academic@engineering.ucsb.edu.

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BS/MS 5-YEAR PROGRAM APPLICATION REQUIREMENTS

- Application Coversheet
- Statement of Purpose
- Statement of Personal Achievements
- Resume or CV
- Three letters of recommendation
 - Each letter has a coversheet and the recommender has filled-out the bottom portion.
 - The letters have been sent by post mail or emailed directly by faculty to the Materials Graduate Program Coordinator.
- GRE Scores:
 - Official score report printed from ETS website
 - Requested with ETS that official scores be sent to UCSB – Institution code 4835
- Official transcripts:
 - Unofficial transcript printed through GOLD
 - Official transcripts from any other post-secondary institutions attended
- Proposed BS/MS study plan:
 - The plan includes the 6 units of approved departmental elective courses with materials content; Materials 100ABC are excluded from the required 6 units (refer to Table II of BS/MS brochure).
 - Your department undergraduate advisor has signed off as approval of your BS study plan.

All application materials must be submitted to Jocelyn Guzman by the last working day of July.

If you are not on campus you may have your application sent to:

Attn: Jocelyn Guzman
Materials Department
Engineering II, Room 1355
University of California
Santa Barbara, CA 93106-5050