# **BS/MS** Program

# **Electrical & Computer Engineering**

General Facts about the Program:

- The BS/MS program is an accelerated program: the applicant must be able to complete the program ideally within five years.
- Graduate units taken during your senior year will allow the completion of MS program requirements in the fifth year.
- Before the end of their junior year, interested undergraduate Electrical & Computer Engineering majors may apply for admission to the BS/MS program in ECE. Application packages are available in the ECE Undergraduate Student Office (Trailer 380, Room 101).
- At the end of their senior year, students who have been admitted to the program have the option of filling out a BS graduation form & leaving the program with only a BS degree if all of the requirements are met.
- Students who are denied entry into the BS/MS program may still apply for admission to the regular MS program (application fees apply).

# Checklist for BS/MS Application

- Deadline for all BS/MS application materials is June 10, 2022.
- Applications are considered complete when they contain:
  - Application worksheet
  - Statement of Purpose consisting of 3 separate documents:
    - Statement of Purpose
    - Personal Achievements/Contributions
    - Resume or Curriculum Vitae
  - 3 Letters of Recommendation (with coversheets and ratings - required)
  - Unofficial UCSB transcript
    - Please submit transcripts even without Spring 2022 grades.

### Emphasis options include:

- Computer Engineering CE
- Electronics & Photonics EP
- Communications, Controls, & Signal Processing CCSP

## Application for the BS/MS Program in Electrical and Computer Engineering Fall 2022

Name of Applicant:	Date:
Perm Number:	
Personal Information	
Birthdate:	_ Gender: Female Male
Citizenship:	_ California Resident? Yes No
Birth City, State and Country:	Ethnicity:
Contact Information	
Permanent Address: (or address you may be contacted at during summer)	
Permanent Phone: ( )	Current Phone: ( )
Mailing Address: (or address during academic year)	
Umail:	
ALL	APPLICATION
MATERI	ALS ARE DUE JUNE
	10, 2022
For ECE Student Office ONLY	(06/10/22)
Status: UN / OF Date:	GPA: Major GPA:
Verbal Raw: Quantitative Raw	Analytical Raw: Writing Raw:
Verbal %: Quantitative %:	Analytical %:

#### GENERAL STRUCTURE OF BS/MS PROGRAM COMPUTER ENGINEERING

FRESHMAN YEAR					
Fall	Units	Winter	Units	Spring	Units
Chem 1A or 2A	3	ECE 1A	1	CMPSC 16	4
Chem 1AL or 2AC	2	Math, Science, or Engr, Elective	4	ECE 1B	1
МАТН ЗА	4	MATH 3B	4	MATH 4A	4
G.E. Elective or Cmpsc 8*	4	PHYS 1	4	PHYS 2	4
WRIT 1E or 2E	4	WRIT 2E or 50E	4	WRIT 50E or GE	4
Total units	17		17		17
SOPHOMORE YEAR					
Fall	Units	Winter	Units	Spring	Units
CMPSC 24	4	CMPSC 40	5	ECE 10C/10CL	5
ECE 10A/10AL	5	ECE 10B/10BL	5	CMPSC 32	4
MATH 4B	3	ECE 15A	4	ECE 152A	5
PHYS 3/3L	4	PHYS 4/4L	З	ECE 139 or	
				PSTAT 120A**	4
Total units	17		18		18
JUNIOR YEAR					
Fall	Units	Winter	Units	Spring	Units
ECE 154A	4	CMPSC 130A	4	CMPEN Elective	8
CMPEN Elective	8	CMPEN Elective	4	G.E. or Free Elective	4
G.E. or Free Electives	4	G.E. or Free Electives	8		
Total units	16		16		12
COMBINED SENIOR & G	RADUA	TE YEAR			
Fall	Units	Winter	Units	Spring	Units
<b>CMPEN</b> Electives	12	<b>CMPEN</b> Electives	8	CMPEN electives	12
Free Elective	4	Engr 101	З	Graduate course	4
Graduate course	4	Free Elective	4		
Total units	20		15		16
FIFTH YEAR (GRADU	ATE)				
Fall	Units	Winter	Units	Spring	Units
Graduate Courses *CMPSC 8 is recommended only for s	12 students who	Graduate Courses	12 perience as pr	Graduate Courses	12 Duisite for Cross
16. **PSTAT 120A is offered each quarter				ogramming experience is a prefe	quisite for Crips

\*\*PSTAT 120A is offered each quarter. ECE 139 is offered only in Spring quarter and is better suited for future upper division electives for the Computer Engineering major.

#### GENERAL STRUCTURE OF BS/MS PROGRAM IN ELECTRICAL ENGINEERING (FOR STUDENTS WHO ENTERED IN FALL 2016)

FRESHMAN YEA	R					
Fall	Units	Winter	Units	Spring	Units	
Chem 1A or 2A	3	ECE 5	4	CMPSC 16	4	
Chem 1AL or 2AC	2	Math 3B	4	Math 4A	4	
Math 3A	4	Phys 1	4	Phys 2	4	
Engr 3	3	Writ 2E or 50E	4	Writ 50E or G.E.	4	
Writ 1E or 2E	4					
Total units	16		16		16	
SOPHOMORE YE	AR					
Fall	Unit	s Winter	Units	Spring	Units	
ECE 10A/10AL	5	ECE 10B/10BL	5	ECE 10C/10CL	5	
Math 4B	4	Math 6A	4	Math 6B	4	
Phys 3	3	Phys 4	3	Phys 5	3	
Phys 3L	1	Phys 4L	1	Phys 5L	1	
		ECE 15A	4			
Total units	13		17		13	
JUNIOR YEAR						
Fall	Unite	s Winter	Unite	s Spring	Units	
ECE 130A	4	ECE 130B	4	ECE 139*	4	
ECE 132	4	ECE 137A	4	ECE 137B	4	
ECE 134	4	ECE Elective	4	ECE 152A*	5	
G.E. or Free elective	4	G.E. or Free Elective	4	G.E. or Free Elective	4	
Total units	16		16		17	
COMBINED SENIOR & GRADUATE YEAR						
Fall	Units		Unit	s Spring	Units	
ECE Electives	12	ECE Electives	8	ECE Electives	8	
G.E. or Free Elective	4	G.E. or Free Electives	s 8	ENGR 101	3	
				G.E. or Free		
Graduate course	4	Graduate course	4	Electives	6	
Total units	20		20		17	
FIFTH YEAR (GRADUATE)						
Fall	Units	Winter	Units	Spring	Units	
Graduate Courses	12	Graduate Courses	12	Graduate Courses	12	

\*ECE 139 and/or ECE 152A may also be taken in the spring quarter of the sophomore year.

## University of California, Santa Barbara **Coversheet for Statement, Achievements, and Resume/CV**

Name				Quarter
	Legal Family Name (Surname)	First Name	Middle Name	
Proposed	d Department	Emphasis		_ Degree

- Type each of the three required documents below on a separate sheet (i.e., three separate documents).
- 1. **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.
- 2. Personal Achievements/Contributions: 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 m evaluating your application for graduate study. For example, please describe if you have experienced economic challenges m 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 interests focusing on cultural, societal, or educational problems as they affect underserved segments of society. or evidence of an intention to use the graduate degree toward serving disadvantaged individuals or populations.
- 3. Resume or Curriculum Vitae: 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"

If you have discussed your plans for graduate study with any UC Santa Barbara faculty, please list their names:

Signature: \_\_\_\_\_ Date:

#### UC SANTA BARBARA COVERSHEET FOR HARD COPY LETTER OF RECOMMENDATION SUBMISSIONS

#### THIS PORTION TO BE COMPLETED BY THE APPLICANT

lail to the Department of		, Unive	rsity of California, Santa Barbara, CA 93106
The application dead	line for the program I am applying to is: _		www.graddiv.ucsb.edu/programs
Applicant Name			
	Legal family name (surname)	First name	Middle Name
Proposed Degree	Emphasis		Quarter
Α	PPLICANT'S WAIVER OF RIGHT TO A	CCESS THE LETT	TER OF RECOMMENDATION
Name of recommende	ər		
support of an application for although such a waiver must letter may be used by the uni	admission and financial assistance. In addition, the law p be voluntary and cannot be a condition of admission, away	ermits students to express ard, or employment. I, the /or the award of a fellows	niversity) the right to inspect letters of recommendation written sly waive the right to inspect letters submitted on their behalf, e undersigned, understand that the information provided in this ship or assistantship. I have read and understand the regulation se one of the following:

Check only one:

#### I hereby waive any and all rights of access to this letter of recommendation

#### I do not agree to waive access to the letter of recommendation

Applicant: Please note you MUST complete the online waiver of right of access for your recommender, even if they are mailing a hard copy letter. The above is indication to your recommender what your waiver decision is. It is your responsibility to log the same answer as above online. If the waiver answer on this sheet differs from the answer in your online application, the University will not consider the letter.

#### THIS PORTION TO BE COMPLETED BY THE RECOMMENDER

#### Please attach this form to your letter of recommendation

The person named above is applying for admission to graduate study and may be applying for financial assistance to the University of California, Santa Barbara. We would appreciate your personal impressions of the candidate's intellectual ability aptitude in research and professional skill. Please comment on the applicant's character, quality of previous work, and promise of productive scholarship. In addition to your letter, please provide the following information:

#### Please check one level for each category

	Upper 1-2%	Upper 10%	Upper 25%	Upper 50%	Lower Half	Inadequate Opportunity to Observe	Decline to State
Intellectual Ability							
Imagination & Creativity							
Ability in Oral Expression							
Writing Ability							

Among the individuals I have know in recent years in the applicant's field I would rank this applicant in the upper \_\_\_\_

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	1		2	-

Recommender's Name (please print)		
Position or Title	Institution or Company _	
Address		
Email Address		
Signature		Date

Please mail this form with your letter of recommendation directly to the department specified above by the applicant.