Planner Requirements Overview

ENGRELCBBS 2025 Sequence (Requirement: 000001809, Effective Date: 08/01/2025)

Acad Prog:	UBACH	Undergraduate	Default Units Per Term:	15	Send to Degree Search:	Yes
Acad Plan:	ENGRELCBBS	Electrical Engineering BS	Total Units to Graduate:	120	Use Catalog Prefs:	Yes
			Reporting Only:	No		

[01] 1st Semester (Units: 15, Lines: 4)

01.01 **CS 111**
0070, Major Requirement (Major Requirement)
Units: 4,CRITICAL
Min Grade Points/Unit: 2
Typically Offered: Fall and/or Spring

Co-Req

MATH 160 (Fulfills Subject Area 2) (1 of 1)
0040, Major Requirement (GE-2 Math/Quant Reasoning),
Units: 5

Pre-Requirement

- MATH 125 or MATH 126 (1541/0010) [Same Term OK]
  - see above

  or
- MATH 125 or MATH 126 (1644/0010) [Same Term OK]
  - see above

  or
- MATH 125 or MATH 126 (1644/0020) [Same Term OK]
  - see above

01.02 **MATH 160 (Fulfills Subject Area 2)**
0040, Major Requirement (GE-2 Math/Quant Reasoning), Units: 5
CRITICAL
Min Grade Points/Unit: 2
Notes: A strong background in HS MATH (Algebra I & II, Geometry & Trig) or MATH 125 with a grade of C or better.
Typically Offered: Fall/Spring/Summer

Pre-Requirement

- MATH 125 or MATH 126 (1541/0010)
  - see (01.01) above

  and
- MATH 125 or MATH 126 (1644/0010)
  - see (01.01) above

  and
- MATH 125 or MATH 126 (1644/0020)
  - see (01.01) above

01.03 **Additional Elective - 3 Units**
0340, Elective Requirement (Elective), Units: 3
Allow Any Course: Unused Courses
Notes: Additional Elective - 3 Units: For First Year Freshman Students UNIV 180-5 is recommended.
Display Note: Y
Typically Offered: Intermittently

01.04 **EE 100**
0030, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2
Typically Offered: Fall/Spring/Summer

[02] 2nd Semester (Units: 15, Lines: 5)

02.01 **PHYS 201 (Fulfills Subject Area 5A/5C)**
0010, Major Requirement (GE-5A Physical Science), Units: 4
CRITICAL
Min Grade Points/Unit: 2
Typically Offered: Fall and/or Spring

Pre-Requirement

- MATH 160 (Fulfills Subject Area 2) (1809/0040)
  - see above

02.02 **GEW 101B (formerly GEW 101) (Fulfills Subject Area 1A)**
0270, CAL GETC (GE-1A English Composition), Units: 3
Min Grade Points/Unit: 1.7
Major 1 Only: Y

Pre-Requirement	o (1603/0010) and o [Support Course] GEW 101A (1603/0020) and o (1604/0010) and o [Support Course] GEW 101A (1604/0020) and o (1603/0030) and o (1603/0040) and o (1603/0050) and o DSP 3/4 [Support Course] GEW 101A - GE A3 (1603/0060) and o [REQUIRED Support Course] DSP 2 (1603/0070) [Same Term OK] and o (1604/0030) and o (1604/0040) and o (1604/0050) and o DSP 3/4 [Support Course] GEW 101A - Subject Area 1B (1604/0060) and o [REQUIRED Support Course] DSP 2 (1604/0070) [Same Term OK]

02.03 **GE Science 5B** Major 1 Only: Y
0200, CAL GETC (GE-5B Biological Science), Units: 3

Pre-Requirement	o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0020) or o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0080) or o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0060) or o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0040) or o (1602/0020) or o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0080) or o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0060) or o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0040)

02.04 **MATH 162** Typically Offered: Fall/Spring/Summer
0170, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 160 (Fulfills Subject Area 2) (1809/0040) o see (02.01) above

02.05 **EE 110** Typically Offered: Fall and/or Spring
0015, Major Requirement (Major Requirement), Units: 1
Min Grade Points/Unit: 2

Pre-Requirement	o EE 100 (1809/0030)

[03] 3rd Semester (Units: 15, Lines: 6)

03.01 **PHYS 202** Typically Offered: Fall and/or Spring
0020, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o PHYS 201 (Fulfills Subject Area 5A/5C) (1809/0010) o see above and o MATH 162 (1809/0170) o see above

03.02 **MATH 260** Typically Offered: Fall/Spring/Summer
0080, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 162 (1809/0170) o see (03.01) above

03.03 **EE 280** Typically Offered: Fall and/or Spring
0100, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o PHYS 201 (Fulfills Subject Area 5A/5C) (1809/0010) o see (03.01) above and o EE 100 (1809/0030)

03.04 **GEO 102 (Fulfills Subject Area 1C)** Major 1 Only: Y
0250, CAL GETC (GE-1C Oral Communication), Units: 3

03.05 **EE 210** Typically Offered: Fall and/or Spring
0025, Major Requirement (Major Requirement), Units: 1
Min Grade Points/Unit: 2

Pre-Requirement	o CS 111 (1809/0070) o see above

[04] 4th Semester (Units: 17, Lines: 6)

04.01 **EE 301** Typically Offered: Fall and/or Spring
0120, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o EE 100 (1809/0030) and o CS 111 (1809/0070) o see (03.05) above

04.02 **PHYS 203** Typically Offered: Fall and/or Spring
0050, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o PHYS 202 (1809/0020) o see above

04.03 **MATH 346 (Fulfills Subject Area UD25)** Typically Offered: Fall and/or Spring
0110, Major Requirement (GE-UD 25 GE UD Math & Science), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 162 (1809/0170) o see (03.01) above

04.04 **Subject Area 1B - Critical Thinking** Major 1 Only: Y
0300, CAL GETC (GE-1B Critical Thinking), Units: 3

04.05 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** Major 1 Only: Y
0280, CAL GETC (GE-3/4/6), Units: 3

[05] 5th Semester (Units: 16, Lines: 5)

05.01 **PHYS 321**
0060, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o PHYS 202 (1809/0020) o see (04.02) above and o MATH 260 (1809/0080) o see above

05.02 **EE 330** Typically Offered: Fall and/or Spring
0150, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o EE 280 (1809/0100) o see above

05.03 **MATH 342** Typically Offered: Fall and/or Spring
0090, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 260 (1809/0080) o see (05.01) above

05.04 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** Major 1 Only: Y
0290, CAL GETC (GE-3/4/6), Units: 3

05.05 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** Major 1 Only: Y
0330, CAL GETC (GE-3/4/6), Units: 3

[06] 6th Semester (Units: 13, Lines: 5)
Semester 6 Notes: After Earning 85 Units Apply for Graduation Online Through Your Student Center

06.01 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** Major 1 Only: Y
0320, CAL GETC (GE-3/4/6), Units: 3

06.02 **PHIL 348 (Fulfills Subject Area UD 3)** Typically Offered: Intermittently
0190, Major Requirement (GE-UD 3 GE UD Arts & Humanitie), Units: 3
Min Grade Points/Unit: 2

06.03 **EE 303** Typically Offered: Fall and/or Spring
0130, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o EE 280 (1809/0100) o see (05.02) above

06.04 **EE 402** Typically Offered: Fall and/or Spring
0160, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o EE 301 (1809/0120) o see above

[07] 7th Semester (Units: 14, Lines: 6)

07.01 **EE 420** Typically Offered: Fall and/or Spring
0180, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o EE 301 (1809/0120) o see (06.04) above and o EE 303 (1809/0130) o see above and o MATH 346 (Fulfills Subject Area UD25) (1809/0110) o see above

07.02 **EE 310** Typically Offered: Fall and/or Spring
0380, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

07.03 **GE Upper Division - Must be taken at Any CSU** Major 1 Only: Y
0360, CAL GETC (Upper Division GE), Units: 3 Display Note: Y
Notes: GE Upper Division - Must be taken at a CSU and complete Subject Area 1A, 1B, 1C, and 2 courses prior to enrolling. Beginning Fall 2020, certain upper-division GE can double-count with the Diversity & Equity requirements.

07.04 **EE 491A** Typically Offered: Fall Only
0385, Major Requirement (Major Requirement), Units: 1
Min Grade Points/Unit: 2
Notes: Enrollment restricted to students who have obtained consent of instructor.

07.05 **EE 435** Typically Offered: Fall Only
0140, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o EE 303 (1809/0130) o see (07.01) above

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[08] 8th Semester (Units: 15, Lines: 5)

08.01 **EE 491B** — Typically Offered: Spring Only
0220, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o EE 491A (1809/0385)

08.02 **ELECTRICAL ENGINEERING ELECTIVE**
0390, Major Requirement (Major Elective), Units: 3
Min Grade Points/Unit: 2
Notes: Must Complete a Total of 3 Units of Upper Division Designated Electives.
Please check Pre-requisite requirements before selecting a course. Once ALL course selections are made on this page, please be sure to run your ARR Planned Report (see link at the top of this page) to make sure your selections complete all degree requirements.

08.03 **Additional Elective - 3 Units** — Typically Offered: Intermittently
0370, Elective Requirement (Elective), Units: 3
Allow Any Course: Unused Courses

08.04 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** — Major 1 Only: Y
0310, CAL GETC (GE-3/4/6), Units: 3

08.05 **EE 430** — Typically Offered: Spring Only
0230, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o EE 330 (1809/0150) o see above