Planner Requirements Overview

ENGSFTWBBS 2025 Sequence (Requirement: 000001622, Effective Date: 08/01/2025)

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

[01] 1st Semester (Units: 16, Lines: 6)

01.01 **CS 111**
0020, 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)
0010, Major Requirement (GE-2 Math/Quant Reasoning),
Units: 5

Pre-Requirement

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

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

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

01.02 **MATH 160 (Fulfills Subject Area 2)**
0010, 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

Co-Req

CS 111 (1 of 1)
0020, Major Requirement (Major Requirement), Units: 4

Pre-Requirement

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

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

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

01.03 **Additional Elective - 3 Units**
0300, 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 **Additional Elective - 3 Units**
0330, Elective Requirement (Elective), Units: 3
Allow Any Course: Unused Courses
Typically Offered: Intermittently

01.05 **SE 100**
0015, Major Requirement (Major Requirement), Units: 1
Min Grade Points/Unit: 2
Notes: SE 100
Typically Offered: Fall/Spring/Summer

[02] 2nd Semester (Units: 16, Lines: 6)

02.01 **CS 211**
0050, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2
Typically Offered: Fall and/or Spring

Pre-Requirement

- CS 111 (1622/0020)
  - see above

  and
- MATH 160 (Fulfills Subject Area 2) (1622/0010) [Same Term OK]
  - see above

02.02 **MATH 162** Typically Offered: Fall/Spring/Summer
0395, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 160 (Fulfills Subject Area 2) (1622/0010) o see (02.01) above

02.03 **PHYS or CHEM Sequence (Fulfills Subject Area 5A & 5C)**
0060, Major Requirement (GE-5A Physical Science), Units: 4
Min Grade Points/Unit: 2
Notes: Must Complete one sequence: PHYS 101 & 102 or PHYS 201 & 202 or CHEM 150 & 150L & CHEM 160 (Fulfills Subject Area 5A & 5C) If CHEM Sequence is chosen CHEM 150L must be chosen on the Additional Elective line.
Please check prerequisites before selecting courses.

Co-Sequence	PHYS or CHEM Sequence (Fulfills Subject Area 5A & 5C) (1622/0170)

02.04 **GEW 101B (formerly GEW 101) (Fulfills Subject Area 1A)** Major 1 Only: Y
0200, CAL GETC (GE-1A English Composition), Units: 3
Min Grade Points/Unit: 1.7

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]

02.05 **Additional Elective - 1 unit - or CHEM 150L** Display Note: Y
0385, Major Requirement (Major Requirement), Units: 1 Typically Offered: Fall and/or Spring
Min Grade Points/Unit: 2
Notes: For the PHYS/CHEM Sequence requirement if CHEM is chosen, you must select CHEM 150L on this line. *Use ARRANGE MY PLAN to place this course in the same term as CHEM 150.
(System Note)

[03] 3rd Semester (Units: 16, Lines: 6)

03.01 **CS 311** Typically Offered: Fall/Spring/Summer
0100, Major Requirement (Major Requirement), Units: 3
CRITICAL
Min Grade Points/Unit: 2

Pre-Requirement	o CS 211 (1622/0050) o see above and o MATH 270 (1622/0090) [Same Term OK] o see above

03.02 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** Major 1 Only: Y
0210, CAL GETC (GE-3/4/6), Units: 3

03.03 **MATH 270** Typically Offered: Fall and/or Spring
0090, Major Requirement (Major Requirement), Units: 3
CRITICAL
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 160 (Fulfills Subject Area 2) (1622/0010) o see (02.01) above

03.04 **PHYS or CHEM Sequence (Fulfills Subject Area 5A & 5C)**
0170, Major Requirement (GE-5C Laboratory), Units: 4
Min Grade Points/Unit: 2
Notes: Must Complete one sequence: PHYS 101 & 102 or PHYS 201 & 202 or CHEM 150 & 150L & CHEM 160 (Fulfills Subject Area 5A & 5C) If CHEM Sequence is chosen CHEM 150L must be chosen on the Additional Elective line.
Please check prerequisites before selecting courses.

Co-Sequence	PHYS or CHEM Sequence (Fulfills Subject Area 5A & 5C) (1622/0060)

03.05 **GE - Oral Communication (Fulfills Subject Area 1C)** Major 1 Only: Y
0190, CAL GETC (GE-1C Oral Communication), Units: 3
Min Grade Points/Unit: 1.7

[04] 4th Semester (Units: 16, Lines: 5)

04.01 **SE 370** Typically Offered: Fall and/or Spring
0040, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o CS 311 (1622/0100) [Same Term OK] o see above and o MATH 270 (1622/0090) [Same Term OK] o see (03.01) above

04.02 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** Major 1 Only: Y
0240, CAL GETC (GE-3/4/6), Units: 3

04.03 **Subject Area 1B - Critical Thinking** Major 1 Only: Y
0260, CAL GETC (GE-1B Critical Thinking), Units: 3

04.04 **MATH 242** Typically Offered: Fall/Spring/Summer
0080, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

04.05 **CS 231** Typically Offered: Fall and/or Spring
0070, Major Requirement (Major Requirement), Units: 4
CRITICAL
Min Grade Points/Unit: 2

Pre-Requirement	o CS 111 (1622/0020) o see (02.01) above

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

05.01 **COMPUTING ESSENTIALS SEQUENCE** Display Note: Y
0030, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2
Notes: 3 Courses Required in either the System Track (CS 331, 433, 435) or the Application Track (CS 443, CIS 444, CS 446).
ALL 3 COURSES MUST BE CHOSEN FROM THE SAME TRACK.
Students are highly encouraged to take 400-level courses on the other track as SE electives.

05.02 **SE 451** Typically Offered: Fall Only
0110, Major Requirement (Major Requirement), Units: 3
CRITICAL
Min Grade Points/Unit: 2

Pre-Requirement	o SE 370 (1622/0040) [Same Term OK] o see above

05.03 **MATH 264 or MATH 374**
0405, Major Requirement (Major Elective), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 160 (Fulfills Subject Area 2) (1622/0010) o see (02.01) above

05.04 **BIOL 104 (Fulfills Subject Area 5B/5C)** Typically Offered: Fall and/or Spring
0220, Major Requirement (GE-5B Biological Science), Units: 4
Min Grade Points/Unit: 2

05.05 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** Major 1 Only: Y
0250, CAL GETC (GE-3/4/6), Units: 3

[06] 6th Semester (Units: 15, Lines: 5)

06.01 **COMPUTING ESSENTIALS SEQUENCE** Display Note: Y
0120, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2
Notes: 3 Courses Required in either the System Track (CS 331, 433, 435) or the Application Track (CS 443, CIS 444, CS 446).
ALL 3 COURSES MUST BE CHOSEN FROM THE SAME TRACK.
Students are highly encouraged to take 400-level courses on the other track as SE electives.

06.02 **SE 461** Typically Offered: Spring Only
0130, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 242 (1622/0080) and o SE 370 (1622/0040) o see (05.02) above

06.03 **SE 471** Typically Offered: Spring Only
0140, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o SE 370 (1622/0040) o see (05.02) above

06.04 **CS 351** Typically Offered: Fall and/or Spring
0150, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o CS 311 (1622/0100) [Same Term OK] o see (04.01) above and o MATH 270 (1622/0090) [Same Term OK] o see (03.01) above

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

[07] 7th Semester (Units: 15, Lines: 6)

07.01 **COMPUTING ESSENTIALS SEQUENCE** Display Note: Y
0180, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2
Notes: 3 Courses Required in either the System Track (CS 331, 433, 435) or the Application Track (CS 443, CIS 444, CS 446).
ALL 3 COURSES MUST BE CHOSEN FROM THE SAME TRACK.
Students are highly encouraged to take 400-level courses on the other track as SE electives.

07.02 **SE 481** Typically Offered: Fall Only
0160, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o SE 451 (1622/0110) o see above

07.03 **PHIL 348** — Typically Offered: Intermittently
0310, Major Requirement (GE-UD 3 GE UD Arts & Humanitie), Units: 3
Min Grade Points/Unit: 2

07.04 **SE 490** 0340, Major Requirement (Major Elective) Units: 3 Min Grade Points/Unit: 2 Typically Offered: Fall Only		**SE 481 (1 of 1)** 0160, Major Requirement (Major Requirement), Units: 3

Pre-Requirement	
	o SE 461 (1622/0130) o see above and o SE 471 (1622/0140) o see above

07.05 **SOFTWARE ENGINEERING MAJOR UPPER DIVISION ELECTIVE** — Display Note: Y
0390, Major Requirement (Major Elective), Units: 3
Min Grade Points/Unit: 2
Notes: 6 Units Required - Chosen from CS 331, SE, CS and CIS Courses Numbered 400 or higher

Pre-Requirement	
	o CS 111 (1622/0020) o see (02.01) above and o SE 451 (1622/0110) o see (07.02) above

[08] 8th Semester (Units: 12, Lines: 4)

08.01 **SE 491** — Typically Offered: Spring Only
0350, Major Requirement (Major Elective), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	
	o SE 490 (1622/0340) o see above

08.02 **SOFTWARE ENGINEERING MAJOR UPPER DIVISION ELECTIVE** — Display Note: Y
0400, Major Requirement (Major Elective), Units: 3
Min Grade Points/Unit: 2
Notes: 6 Units Required - Chosen from CS 331, SE, CS and CIS Courses Numbered 400 or higher

Pre-Requirement	
	o CS 111 (1622/0020) o see (02.01) above and o SE 451 (1622/0110) o see (07.02) above

08.03 **GE Upper Division** — Major 1 Only: Y
0320, CAL GETC (Upper Division GE), Units: 3

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