Planner Requirements Overview

APHYAPEBBS 2025 Sequence (Requirement: 000020003, Effective Date: 08/01/2025)

Acad Prog:	UBACH	Undergraduate	Default Units Per Term:	15	Send to Degree Search:	Yes
Acad Plan:	APHYAPEBBS	Applied Physics Appl Elec BS	Total Units to Graduate:	120	Use Catalog Prefs:	Yes
			Reporting Only:	No		

[01] 1st Semester (Units: 15, Lines: 5)

01.01 **MATH 160 (Fulfills Subject Area 2)** — Typically Offered: Fall/Spring/Summer
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.

Pre-Requirement	o MATH 125 or MATH 126 (1541/0010) o see above and o MATH 125 or MATH 126 (1644/0010) o see above and o MATH 125 or MATH 126 (1644/0020) o see above

01.02 **Additional Elective - 3 Units**
0340, Elective Requirement (Elective), Units: 3
Allow Any Course: Unused Courses

01.03 **Additional Elective - 3 Units** — Display Note: Y
0300, Elective Requirement (Elective), Units: 3 — Typically Offered: Intermittently
Allow Any Course: Unused Courses
Notes: Additional Elective - 3 Units: For First Year Freshman Students UNIV 180-5 is recommended.

01.04 **GES 103 (Fulfills Subject Area 5B)** — Major 1 Only: Y
0230, Major Requirement (GE-5B Biological Science), Units: 3

Pre-Requirement	o MATH 30 (10026/0050) o see above

01.05 **PHYS 100** — Typically Offered: Fall and/or Spring
0005, Major Requirement (Major Requirement), Units: 1
Min Grade Points/Unit: 2

[02] 2nd Semester (Units: 17, Lines: 6)

02.01 **PHYS 201 (PHYS 201 Fulfills Subject Areas 5A & 5C)** — Display Note: Y
0050, Major Requirement (GE-5A Physical Science), Units: 4 — Typically Offered: Fall and/or Spring
Min Grade Points/Unit: 2
Notes: Faculty recommends PHYS 210A be taken with PHYS 201 - you may manually add this course to your Degree Planner.

Pre-Requirement	o MATH 160 (Fulfills Subject Area 2) (20003/0010) o see above

02.02 **MATH 162** — Typically Offered: Fall/Spring/Summer
0060, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 160 (Fulfills Subject Area 2) (20003/0010) o see (02.01) above

02.03 **GEW 101B (formerly GEW 101) (Fulfills Subject Area 1A)** — Major 1 Only: Y
0210, 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]

02.04 **GE - Oral Communication (Fulfills Subject Area 1C)** — Major 1 Only: Y
0200, CAL GETC (GE-1C Oral Communication), Units: 3
Min Grade Points/Unit: 1.7

02.05 **Subject Area 1B - Critical Thinking** — Major 1 Only: Y
0250, CAL GETC (GE-1B Critical Thinking), Units: 3

[03] 3rd Semester (Units: 15, Lines: 5)

03.01 **PHYS 202** — Display Note: Y
0100, Major Requirement (Major Requirement), Units: 4 — Typically Offered: Fall and/or Spring
Min Grade Points/Unit: 2
Notes: Faculty recommends PHYS 210B be taken with PHYS 202 - you may manually add this course to your Degree Planner.

Pre-Requirement	o PHYS 201 (PHYS 201 Fulfills Subject Areas 5A & 5C) (20003/0050) o see above

03.02 **MATH 260** — Typically Offered: Fall/Spring/Summer
0110, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 162 (20003/0060) o see above

03.03 **CS 111** — Typically Offered: Fall and/or Spring
0080, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 160 (Fulfills Subject Area 2) (20003/0010) [Same Term OK] o see (02.01) above

03.04 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** — Major 1 Only: Y
0220, CAL GETC (GE-3/4/6), Units: 3

[04] 4th Semester (Units: 14, Lines: 4)

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

04.02 **PHYS 203**
0150, Major Requirement (Major Requirement)
Units: 4,CRITICAL
Min Grade Points/Unit: 2
Notes: Faculty recommends PHYS 210C be taken with PHYS 203 - you may manually add this course to your Degree Planner.
Display Note: Y
Typically Offered: Fall and/or Spring

Co-Req

PHYS 280 (1 of 1)
0120, Major Requirement (Major Requirement), Units: 3

Pre-Requirement
- o PHYS 202 (20003/0100)
  - o see above

04.03 **PHYS 280**
0120, Major Requirement (Major Requirement)
Units: 3
Min Grade Points/Unit: 2
Notes: PHYS 280 - Recommended Prior Completion or Concurrent Enrollment in PHYS 203.
Typically Offered: Fall and/or Spring

Co-Req

PHYS 203 (1 of 1)
0150, Major Requirement (Major Requirement), Units: 4

Pre-Requirement
- o PHYS 202 (20003/0100)
  - o see (04.02) above

04.04 **CS 211** Typically Offered: Fall and/or Spring
0040, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement
- o CS 111 (20003/0080)
  - o see above

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

05.01 **CS 231** Typically Offered: Fall and/or Spring
0170, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement
- o CS 111 (20003/0080)
  - o see (04.04) above

05.02 **PHYS 320** Typically Offered: Spring Only
0020, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement
- o PHYS 201 (PHYS 201 Fulfills Subject Areas 5A & 5C) (20003/0050)
  - o see (03.01) above
  - and
- o MATH 346 - Also Fulfills BB if Taken After Completing 60 Units (20003/0140) [Same Term OK]
  - o see above

05.03 **PHYS 321**
0030, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2
Notes: MATH 260 is a required pre-requisite

Pre-Requirement
- o PHYS 202 (20003/0100)
  - o see (04.02) above
  - and
- o MATH 260 (20003/0110)
  - o see above

05.04 **MATH 346 - Also Fulfills BB if Taken After Completing 60 Units** Typically Offered: Fall and/or Spring
0140, Major Requirement (GE-UD 25 GE UD Math & Science), Units: 3
Min Grade Points/Unit: 2
Notes: Math 346 "double counts" meeting both UD25 and Major requirement if taken after completion of 60 units. (Recommended Preparation for this course is MATH 260)

Pre-Requirement
- o MATH 162 (20003/0060)
  - o see (03.02) above

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

[06] 6th Semester (Units: 13, Lines: 4)

06.01 **PHYS 301** Typically Offered: Fall and/or Spring
0180, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o PHYS 202 (20003/0100) o see (04.02) above and o CS 231 (20003/0170) [Same Term OK] o see above and o MATH 260 (20003/0110) [Same Term OK] o see (05.03) above

06.02 **PHYS 303** Typically Offered: Spring Only
0070, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o PHYS 203 (20003/0150) o see above

06.04 **Applied Electronics Elective**
0350, Major Requirement (Major Elective), Units: 3
Min Grade Points/Unit: 2
Notes: Minimum of 8 Units required to satisfy Applied Electronics Elective requirement.Please check course Pre-Requisites requirement 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.

Pre-Requirement	o CS 231 (20003/0170) [Same Term OK] o see (06.01) above and o PHYS 203 (20003/0150) o see (06.02) above and o MATH 346 - Also Fulfills BB if Taken After Completing 60 Units (20003/0140) [Same Term OK] o see (05.02) above

06.05 **PHYS 270** Typically Offered: Fall and/or Spring
0065, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o CS 111 (20003/0080) o see (04.04) above and o PHYS 201 (PHYS 201 Fulfills Subject Areas 5A & 5C) (20003/0050) o see (03.01) above and o MATH 160 (Fulfills Subject Area 2) (20003/0010) o see (02.01) above

[07] 7th Semester (Units: 16, Lines: 6)

07.01 **PHYS 402** Typically Offered: Fall Only
0190, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o PHYS 301 (20003/0180) o see above

07.02 **PHYS 323** Typically Offered: Fall Only
0160, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o PHYS 203 (20003/0150) o see (06.02) above

07.03 **Applied Electronics Elective**
0360, Major Requirement (Major Elective), Units: 3
Min Grade Points/Unit: 2
Notes: Minimum of 8 Units required to satisfy Applied Electronics Elective requirement.Please check course Pre-Requisites requirement 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.

Pre-Requirement	o CS 231 (20003/0170) [Same Term OK] o see (06.01) above and o PHYS 203 (20003/0150) o see (06.02) above and o MATH 346 - Also Fulfills BB if Taken After Completing 60 Units (20003/0140) [Same Term OK] o see (05.02) above

07.04 **DIVERSITY & EQUITY IN THE U.S. - It is strongly recommended to select a course that meets this requirement on your GE upper-division line. Doing so will clear this requirement.**
0330, University Requirement (Diversity & Equity U.S.), Units: 3
Min Grade Points/Unit: 0.7

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

[08] 8th Semester (Units: 14, Lines: 7)

08.01 **PHYS 380 or PHYS 480**
0130, Major Requirement (Major Requirement), Units: 2
Min Grade Points/Unit: 2

Pre-Requirement	o PHYS 203 (20003/0150) o see (06.02) above

08.02 **PHYS 499B** Advisor Approved: Y
0090, Major Requirement (Major Requirement), Units: 2 Display Note: Y
Min Grade Points/Unit: 2
Notes: Enrollment Restricted With Consent of Instructor

08.04 **Applied Electronics Elective**
0370, Major Requirement (Major Elective), Units: 2
Min Grade Points/Unit: 2
Notes: Minimum of 8 Units required to satisfy Applied Electronics Elective requirement.Please check course Pre-Requisites requirement 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.

Pre-Requirement	o CS 231 (20003/0170) [Same Term OK] o see (06.01) above and o PHYS 203 (20003/0150) o see (06.02) above and o MATH 346 - Also Fulfills BB if Taken After Completing 60 Units (20003/0140) [Same Term OK] o see (05.02) above

08.05 **DIVERSITY & EQUITY IN GLOBAL CONTEXTS - It is strongly recommended to select a course that meets this requirement on your GE upper-division line. Doing so will clear this requirement.**
0270, University Requirement (Diversity & Equity Global), Units: 3
Min Grade Points/Unit: 0.7

08.05 **Additional Elective - 3 units** Typically Offered: Intermittently
0310, Elective Requirement (Elective), Units: 2
Allow Any Course: Unused Courses

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08.05 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** 0260, CAL GETC (GE-3/4/6), Units: 3	Major 1 Only: Y