Planner Requirements Overview

APHYAPHBBS 2025 Sequence (Requirement: 000020002, Effective Date: 08/01/2025)

Acad Prog:	UBACH	Undergraduate	Default Units Per Term:	15	Send to Degree Search:	Yes
Acad Plan:	APHYAPHBBS	Applied Physics App Phys 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: Enrollment restricted to students who have completed the ELM requirement. 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**
0350, Elective Requirement (Elective), Units: 3
Allow Any Course: Unused Courses

01.03 **Additional Elective - 3 Units** — Display Note: Y
0310, 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
0240, 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) (20002/0010) 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) (20002/0010) o see (02.01) above

02.03 **GEW 101B (formerly GEW 101) (Fulfills Subject Area 1A)** — Major 1 Only: Y
0220, 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
0210, 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
0290, CAL GETC (GE-1B Critical Thinking), Units: 3

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

03.01 **PHYS 202** — Display Note: Y
0090, 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) (20002/0050) o see above

03.02 **MATH 260** — Typically Offered: Fall/Spring/Summer
0100, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 162 (20002/0060) o see above

03.03 **CHEM 150 (Fulfills Subject Area 5A)**
0020, Major Requirement (GE-5A Physical Science)
Units: 4
Min Grade Points/Unit: 2
Typically Offered: Fall and/or Spring



CHEM 150L (Fulfills Subject Area 5C) (1 of 1)
0030, Major Requirement (GE-5C Laboratory), Units: 1

Pre-Requirement	o CHEM 101 (1605/0010) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0020) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0040) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0060) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0080) and o (1602/0020) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0040) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0060) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0080)

03.04 **CHEM 150L (Fulfills Subject Area 5C)**
0030, Major Requirement (GE-5C Laboratory)
Units: 1
Min Grade Points/Unit: 2
Typically Offered: Fall and/or Spring

Co-Req

CHEM 150 (Fulfills Subject Area 5A) (1 of 1)
0020, Major Requirement (GE-5A Physical Science), Units: 4

Pre-Requirement	o CHEM 101 (1605/0010) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0020) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0040) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0060) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0080) and o (1602/0020) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0040) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0060) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0080)

03.05 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** Major 1 Only: Y
0230, CAL GETC (GE-3/4/6), Units: 3

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

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)
0070, Major Requirement (Major Requirement), Units: 3

Pre-Requirement	o PHYS 202 (20002/0090) o see above

04.03 **PHYS 280**
0070, Major Requirement (Major Requirement)
Units: 3
Min Grade Points/Unit: 2
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 (20002/0090) o see (04.02) above

04.04 **CS 111** Typically Offered: Fall and/or Spring
0040, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 160 (Fulfills Subject Area 2) (20002/0010) [Same Term OK] o see (02.01) above

04.05 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** Major 1 Only: Y
0270, CAL GETC (GE-3/4/6), Units: 3

[05] 5th Semester (Units: 15, Lines: 5)

05.01 **PHYS 320** Typically Offered: Spring Only
0190, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o PHYS 201 (PHYS 201 Fulfills Subject Areas 5A & 5C) (20002/0050) o see (03.01) above and o MATH 346 - Also Fulfills UD25 (20002/0140) [Same Term OK] o see above

05.02 **PHYS 321**
0110, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2
Notes: MATH 260 is a required pre-requisite

Pre-Requirement	o PHYS 202 (20002/0090) o see (04.02) above and o MATH 260 (20002/0100) o see above

05.04 **MATH 346 - Also Fulfills UD25** Typically Offered: Fall and/or Spring
0140, Major Requirement (GE-UD 25 GE UD Math & Science), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 162 (20002/0060) o see (03.02) above

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

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

[06] 6th Semester (Units: 14, Lines: 5)

06.01 **PHYS 421**
0200, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 346 - Also Fulfills UD25 (20002/0140) o see (05.01) above and o PHYS 321 (20002/0110) o see above

06.02 **PHYS 380 or PHYS 480**
0120, Major Requirement (Major Requirement), Units: 2
Min Grade Points/Unit: 2

Pre-Requirement	o PHYS 203 (20002/0150) o see above

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

06.04 **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 (20002/0040) o see above and o PHYS 201 (PHYS 201 Fulfills Subject Areas 5A & 5C) (20002/0050) o see (03.01) above and o MATH 160 (Fulfills Subject Area 2) (20002/0010) o see (02.01) above

06.05 **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.**
0340, University Requirement (Diversity & Equity U.S.), Units: 3
Min Grade Points/Unit: 0.7

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

07.01 **PHYS 323** Display Note: Y
0160, Major Requirement (Major Requirement), Units: 3 Typically Offered: Fall Only
Min Grade Points/Unit: 2
Notes: Recommended Preparation: MATH 346

Pre-Requirement	o PHYS 203 (20002/0150) o see (06.02) above

07.02 **PHYS 324** Typically Offered: Spring Only
0080, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o PHYS 203 (20002/0150) o see (06.02) above

07.03 **GE Upper Division** Major 1 Only: Y
0330, CAL GETC (Upper Division GE), Units: 3

07.04 **Applied Physics Elective**
0360, Major Requirement (Major Elective), Units: 4
Min Grade Points/Unit: 2
Notes: Minimum of 10 Units required to satisfy Applied Physics 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 MATH 162 (20002/0060) o see (03.02) above and o CS 111 (20002/0040) o see (06.04) above and o PHYS 280 (20002/0070) o see above

07.05 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** Major 1 Only: Y
0300, CAL GETC (GE-3/4/6), Units: 3

[08] 8th Semester (Units: 13, Lines: 6)
Once you have made your course selections please make an appointment with your Academic Advisor to confirm that your selections sufficiently meet your degree requirements.

08.01 **PHYS 422** Typically Offered: Fall Only
0170, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o PHYS 203 (20002/0150) o see (06.02) above and o MATH 346 - Also Fulfills UD25 (20002/0140) [Same Term OK] o see (05.01) above

08.02 **PHYS 423** Typically Offered: Spring Only
0130, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o PHYS 323 (20002/0160) o see above and o MATH 346 - Also Fulfills UD25 (20002/0140) o see (05.01) above

08.03 **PHYS 499B** Advisor Approved: Y
0180, Major Requirement (Major Requirement), Units: 2 Display Note: Y
Min Grade Points/Unit: 2
Notes: Enrollment Restricted With Consent of Instructor

08.04 **Applied Physics Elective**
0380, Major Requirement (Major Elective), Units: 2
Min Grade Points/Unit: 2
Notes: Minimum of 10 Units required to satisfy Applied Physics 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 MATH 162 (20002/0060) o see (03.02) above and o CS 111 (20002/0040) o see (06.04) above and o PHYS 280 (20002/0070) o see (07.04) 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.**
0280, University Requirement (Diversity & Equity Global), Units: 3
Min Grade Points/Unit: 0.7