

PHYSICS SAMPLE COURSE PLANS (APPLIED PHYSICS AND ENGINEERING)

This is a sample course plan based on math placement. Students are strongly encouraged to consult with major advisor for a customized plan.

MATH 009A PLACEMENT

FALL	WINTER	SPRING
PHYS 041A (8 UNITS)	PHYS 041B (8 UNITS)	PHYS 041C (8 UNITS)
MATH 009A (4 UNITS)	MATH 009B (4 UNITS)	MATH 009C (4 UNITS)
PHYS 039 (3 UNITS)	ENGL 001A (4 UNITS)	ENGL 001B (4 UNITS)
TOTAL: 15 UNITS	TOTAL: 16 UNITS	TOTAL: 16 UNITS

TOTAL:47/180 UNITS

FALL	WINTER	SPRING
PHYS 130A (4 UNITS)	PHYS 130B (4 UNITS)	PHYS 132 (4 UNITS)
CHEM 001A/LA (5 UNITS)	CHEM 001B/LB (5 UNITS)	CHEM 001C/LC (5 UNITS)
MATH 010A (4 UNITS)	MATH 010B (4 UNITS)	MATH 046 (4 UNITS)
CS 010A (4 UNITS) OR CS009A (4 UNITS)	WORLD HISTORY 010, 015, OR 020 (4 UNITS)	
TOTAL: 17 UNITS	TOTAL: 17 UNITS	TOTAL: 13 UNITS

TOTAL: 94/180 UNITS

FALL	WINTER	SPRING
PHYS 135A (4 UNITS)	PHYS 135B (4 UNITS)	*LOWER DIVISION APEN ELECTIVE (4 UNITS)
PHYS 156A (4 UNITS)	PHYS 156B (4 UNITS)	PHYS UPPER DIVISION ELECTIVE (4 UNITS)
FINE ART, LIT, PHIL, OR RLST (4 UNITS)	ECONOMICS OR POLITICAL SCIENCE (4 UNITS)	ANTH, SOC, OR PSYC (4 UNITS)
ADDITIONAL HUMANITIES (4 UNITS)	ELECTIVE (4 UNITS)	
TOTAL: 16 UNITS	TOTAL: 16 UNITS	TOTAL: 12 UNITS

TOTAL: 138/180 UNITS

FALL	WINTER	SPRING
*LOWER DIVISION APEN ELECTIVE (4 UNITS)	*UPPER DIVISION APEN ELECTIVE (4 UNITS)	*UPPER DIVISION APEN ELECTIVE (4 UNITS)
PHYS 139L (5 UNITS)	**PHYS 142W (5 UNITS)	ADDITIONAL SOCIAL SCIENCE (4 UNITS)
ETHNIC STUDIES (4 UNITS)	BIOLOGY BREADTH (4 UNITS)	ELECTIVE (4 UNITS)
		ELECTIVE (4 UNITS)
TOTAL: 13 UNITS	TOTAL: 13 UNITS	TOTAL: 16 UNITS

TOTAL: 180/180 UNITS

**PHYS 142W will satisfy the Upper Division core requirement and ENGL 001C.

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MATH 005A PLACEMENT

FALL	WINTER	SPRING	SUMMER (OPTIONAL)
MATH 005A (5 UNITS)	MATH 0005B (5 UNITS)	MATH 005C (5 UNITS)	CHEM 001C/LC (5 UNITS)
PHYS 039 (3 UNITS)	CHEM 001A/LA (5 UNITS)	CHEM 001B/LB (5 UNITS)	FINE ART, LIT, PHIL, OR RLST (4 UNITS)
WORLD HISTORY 010, 015, OR 020 (4 UNITS)	ENGL 001B (4 UNITS)	ADDITIONAL HUMANITIES (4 UNITS)	
ENGL 001A/LA (4 UNITS)	ELECTIVE (4 UNITS)		
TOTAL: 16 UNITS	TOTAL: 18 UNITS	TOTAL: 14 UNITS	TOTAL: 9 UNITS

TOTAL:57/180 UNITS

FALL	WINTER	SPRING	SUMMER (OPTIONAL)
PHYS 041A (8 UNITS)	PHYS 041B (8 UNITS)	PHYS 041C (8 UNITS)	
MATH 010A (4 UNITS)	MATH 010B (4 UNITS)	MATH 046 (4 UNITS)	
CS 010A OR CS 009A (4 UNITS)	ECONOMICS OR POLITICAL SCIENCE (4 UNITS)	ANTH, SOC, OR PSYC (4 UNITS)	
TOTAL: 16 UNITS	TOTAL: 16 UNITS	TOTAL: 16 UNITS	

TOTAL:105/180 UNITS

FALL	WINTER	SPRING	SUMMER (OPTIONAL)
PHYS 130A (4 UNITS)	PHYS 130B (4 UNITS)	PHYS 132 (4 UNITS)	
PHYS 135A (4 UNITS)	PHYS 135B (4 UNITS)	*LOWER DIVISION APEN ELECTIVE (4 UNITS)	
ETHNIC STUDIES (4 UNITS)	BIOLOGY BREADTH (5 UNITS)	PHYS UPPER DIV ELECTIVE (4 UNITS)	
TOTAL: 12 UNITS	TOTAL: 13 UNITS	TOTAL: 12 UNITS	

TOTAL: 142/180 UNITS

FALL	WINTER	SPRING	SUMMER (OPTIONAL)
*LOWER DIVISION APEN ELECTIVE (4 UNITS)	*UPPER DIVISION APEN ELECTIVE (4 UNITS)	*UPPER DIVISION APEN ELECTIVE (4 UNITS)	
PHYS 139L (5 UNITS)	**PHYS 142W (5 UNITS)	ADDITIONAL SOCIAL SCIENCE (4 UNITS)	
PHYS 156A (4 UNITS)	PHYS 156B (4 UNITS)	ELECTIVE (4 UNITS)	
TOTAL: 13 UNITS	TOTAL: 13 UNITS	TOTAL: 12 UNITS	

TOTAL: 180/180 UNITS

**PHYS 142W will satisfy the Upper Division core requirement and ENGL 001C.

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MATH 006A PLACEMENT

FALL	WINTER	SPRING	SUMMER (OPTIONAL)
MATH 006A (4 UNITS)	MATH 0006B (4 UNITS)	MATH 009A (4 UNITS)	CHEM 001C/LC (5 UNITS)
PHYS 039 (3 UNITS)	CHEM 001A/LA (5 UNITS)	CHEM 001B/LB (5 UNITS)	MATH 009B (4 UNITS)
WORLD HISTORY 010, 015, OR 020 (4 UNITS)	FINE ART, LIT, PHIL, OR RLST (4 UNITS)	ADDITIONAL HUMANITIES (4 UNITS)	
ENGL 001A/LA (4 UNITS)	ENGL 001B (4 UNITS)		
TOTAL: 15 UNITS	TOTAL: 17 UNITS	TOTAL: 13 UNITS	TOTAL: 9 UNITS

TOTAL:54/180 UNITS

FALL	WINTER	SPRING	SUMMER (OPTIONAL)
PHYS 041A (8 UNITS)	PHYS 041B (8 UNITS)	PHYS 041C (8 UNITS)	MATH 046 (4 UNITS)
MATH 009C (4 UNITS)	MATH 010A (4 UNITS)	MATH 010B (4 UNITS)	
CS 010A OR CS 009A (4 UNITS)	ECONOMICS OR POLITICAL SCIENCE (4 UNITS)	ANTH, SOC, OR PSYC (4 UNITS)	
TOTAL: 16 UNITS	TOTAL: 16 UNITS	TOTAL: 16 UNITS	TOTAL: 4 UNITS

TOTAL:106/180 UNITS

FALL	WINTER	SPRING	SUMMER (OPTIONAL)
PHYS 130A (4 UNITS)	PHYS 130B (4 UNITS)	PHYS 132 (4 UNITS)	
PHYS 135A (4 UNITS)	PHYS 135B (4 UNITS)	*LOWER DIVISION APEN ELECTIVE (4 UNITS)	
BIOLOGY BREADTH (5 UNITS)	ETHNIC STUDIES (4 UNITS)	PHYS UPPER DIV ELECTIVE (4 UNITS)	
TOTAL: 13 UNITS	TOTAL: 12 UNITS	TOTAL: 12 UNITS	

TOTAL: 143/180 UNITS

FALL	WINTER	SPRING	SUMMER (OPTIONAL)
*LOWER DIVISION APEN ELECTIVE (4 UNITS)	*UPPER DIVISION APEN ELECTIVE (4 UNITS)	*UPPER DIVISION APEN ELECTIVE (4 UNITS)	
PHYS 139L (5 UNITS)	**PHYS 142W (5 UNITS)	ADDITIONAL SOCIAL SCIENCE (4 UNITS)	
PHYS 156A (4 UNITS)	PHYS 156B (4 UNITS)	ELECTIVE (4 UNITS)	
TOTAL: 13 UNITS	TOTAL: 13 UNITS	TOTAL: 12 UNITS	

TOTAL: 181/180 UNITS

**PHYS 142W will satisfy the Upper Division core requirement and ENGL 001C.

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MATH 003 PLACEMENT

FALL	WINTER	SPRING	SUMMER (OPTIONAL)
MATH 003 (3 UNITS)	MATH 0006A (4 UNITS)	MATH 006B (4 UNITS)	MATH 009A (4 UNITS) (SESSION A)
PHYS 039 (3 UNITS)	ADDITIONAL HUMANITIES (4 Units)	CHEM 001A/LA (5 UNITS)	CHEM 001B/LB (5 UNITS) (SESSION A)
WORLD HISTORY 010, 015, OR 020 (4 UNITS)	ENGL 001B (4 UNITS)	FINE ART, LIT, PHIL, OR RLST (4 UNITS)	MATH 009B (4 UNITS) (SESSION B)
ENGL 001A/LA (4 UNITS)			
TOTAL: 14 UNITS	TOTAL: 12 UNITS	TOTAL: 13 UNITS	TOTAL: 13 UNITS

TOTAL: 52/180 UNITS

FALL	WINTER	SPRING	SUMMER (OPTIONAL)
PHYS 041A (8 UNITS)	PHYS 041B (8 UNITS)	PHYS 041C (8 UNITS)	MATH 046 (4 UNITS) (SESSION A)
MATH 009C (4 UNITS)	MATH 010A (4 UNITS)	MATH 010B (4 UNITS)	CHEM 001C/LC (5 UNITS) (SESSION B)
CS 010A OR CS 009A (4 UNITS)	ECONOMICS OR POLITICAL SCIENCE (4 UNITS)	ANTH, SOC, OR PSYC (4 UNITS)	
TOTAL: 16 UNITS	TOTAL: 16 UNITS	TOTAL: 16 UNITS	TOTAL: 9 UNITS

TOTAL: 109/180 UNITS

FALL	WINTER	SPRING	SUMMER (OPTIONAL)
PHYS 130A (4 UNITS)	PHYS 130B (4 UNITS)	PHYS 132 (4 UNITS)	
PHYS 135A (4 UNITS)	PHYS 135B (4 UNITS)	*LOWER DIVISION APEN ELECTIVE (4 UNITS)	
ETHNIC STUDIES (4 UNITS)	BIOLOGY BREADTH (4 UNITS)	PHYS UPPER DIV ELECTIVE (4 UNITS)	
TOTAL: 12 UNITS	TOTAL: 12 UNITS	TOTAL: 12 UNITS	

TOTAL: 145/180 UNITS

FALL	WINTER	SPRING	SUMMER (OPTIONAL)
*LOWER DIVISION APEN ELECTIVE (4 UNITS)	*UPPER DIVISION APEN ELECTIVE (4 UNITS)	*UPPER DIVISION APEN ELECTIVE (4 UNITS)	
PHYS 139L (5 UNITS)	**PHYS 142W (5 UNITS)	ADDITIONAL SOCIAL SCIENCE (4 UNITS)	
PHYS 156A (4 UNITS)	PHYS 156B (4 UNITS)	ELECTIVE (4 UNITS)	
TOTAL: 13 UNITS	TOTAL: 13 UNITS	TOTAL: 12 UNITS	

TOTAL: 183/180 UNITS

**PHYS 142W will satisfy the Upper Division core requirement and ENGL 001C.

*Consult with faculty advisor to determine track in Applied PHYS&ENGR