

BEACH

EDGE
COMPUTATIONAL PHYSICS

Recommended Roadmap

Physics B.S. + Computational Physics M.S.

Semester	Status	Required Courses (# of units)	Elective Courses (# of units)	GE Courses	Total B.S. Units	Total Major Units	Total M.S. Units
Year 1: Fall	Lower-division courses only	PHYS 151 (4)		<ul style="list-style-type: none"> • GE Area A2 (3) • GE Area B4 = MATH 122 (4) • GE Area C,D,E,F (3) • NSCI 190A (1) 	15	8	0
Year 1: Spring	Lower-division courses only	PHYS 152 (4)	Elective (1)	<ul style="list-style-type: none"> • GE Area A1 (3) • GE Area A3 (3) • B4 = MATH 123 (4) 	15	8	0
Year 2: Fall	MSDR complete with "C" or better – can declare major with 2.25	<ul style="list-style-type: none"> • PHYS 254 (3) • PHYS 255 (1) • MATH 224 (4) 	Elective (1)	<ul style="list-style-type: none"> • GE Area C,D,E,F (3) • GE Area C,D,E,F (3) 	15	8	0
Year 2: Spring		<ul style="list-style-type: none"> • MATH 247 (3) • PHYS 310 or 360 (3) • BIOL 200/211 (4) or CHEM 111A (5) 	Elective (1-2)	GE Area C,D,E,F (3)	15	12	0

Semester	Status	Required Courses (# of units)	Elective Courses (# of units)	GE Courses	Total B.S. Units	Total Major Units	Total M.S. Units
Year 3: Fall	60 units completed, eligible for EDGE, enrolled in 12+ discipline-specific units	<ul style="list-style-type: none"> • MATH 364 (3) • PHYS 320 (3) • PHYS 310 and/or 360 (3) <i>(transfers take both)</i> 	<ul style="list-style-type: none"> • Elective (3) <i>(not for transfers)</i> • PHYS 390 or elective (3) 		16	16	0
Year 3: Spring	Eligible for EDGE	<ul style="list-style-type: none"> • PHYS 340A(3) • PHYS 350(3) • PHYS 496 (1) • PHYS 494 or 495 (1) 	PHYS 510 (3)	GE Area UD B = MATH 361 (3)	14	11	3
Year 4: Fall	Eligible for EDGE	<ul style="list-style-type: none"> • PHYS 340B (3) • PHYS 450 (3) • MATH 380 (3) • PHYS 496 (1) 	<ul style="list-style-type: none"> • PHYS 697C (1) • PHYS 545 or 546 (3) 	GE UD (Area C-UD, D-UD) (3)	14	10	4
Year 4: Spring	End of B.S. degree (121 units, 85 in major); Advance to candidacy before starting M.S.	<ul style="list-style-type: none"> • PHYS 380 (4) • PHYS 390 or 434 or 465 or 447/448 (3) • PHYS 494 or 401 (1) • PHYS 496 (1) 	<ul style="list-style-type: none"> • PHYS 540A or PHYS 522 (3) • PHYS 697C 	GE UD (Area C-UD, D-UD) (3)	17	12	5
Year 5: Fall	Enter graduate standing with 12 units of M.S. units from EDGE	12 units of graduate coursework: <ul style="list-style-type: none"> • PHYS 550A (3) • PHYS 560A (3) • PHYS 562 (3) • PHYS 698 (3 units of thesis) 			0	12	12
Year 5: Spring	End of Computational Physics M.S. degree (34 units)	10 units of graduate coursework: <ul style="list-style-type: none"> • PHYS 550B (3) • PHYS 522 or 540A (3) <i>(whichever not taken in Year 4 Spring)</i> • PHYS 595 (1) • PHYS 698 (3 units of thesis) 			0	10	10

Please see [Physics B.S. + Computational Physics M.S.: Physics EDGE Program](#) for more information.