

Physics Major - General Track (BA) Checklist

Student name: _____ SPIRE #: _____ Advisor name & date: _____

	Course number	Course title or description	Credits	Semester/Grade	Career/Prof. Development
F1	PHYS 181 (F)	Physics I (Mechanics)	4		<ul style="list-style-type: none"> • Handshake • Write resume • Get to know at least one faculty member
	PHYS 185 (F)	Freshman Colloquium (recommended)	1		
	MATH 131 (F/S)	Calculus I (or take higher class)	4		
	Other	<ul style="list-style-type: none"> • First-year freshman seminar • GenEd DU or DG 	1 4		
S1	PHYS 182 (S)	Physics II (E&M)	4		<ul style="list-style-type: none"> • Apply for summer job/internship: • Consider research, teaching, outreach
	MATH 132 (F/S)	Calculus II (or take higher class)	4		
	PHYS 192M (S)	Intro/Measurement w/Arduino (recommended)	1		
	Other (optional)	<ul style="list-style-type: none"> • Independent study (research) • PHYS 281 (S1 or F2 – talk to advisor) • GenEd DU or DG if not already taken 	1-3 3 4		
F2	PHYS 287 (F)	Physics III (thermo, waves...)	3		
	PHYS 289 (F)	Physics III Lab	1		
	PHYS 281 (F/S)	Computational Physics	3		
	MATH 233 (F/S)	Calculus III, multivariable (or higher)	3		
	Other (optional)	<ul style="list-style-type: none"> • MATH 235 (Linear Algebra) • TA, PHYS 390T, or indep. study research 	3		<ul style="list-style-type: none"> • Meet with CNS career center.
S2	PHYS 284 (S)	Modern Physics (relativity & intro QM)	3		<ul style="list-style-type: none"> • Apply for summer job/internship: start in Dec., due in Feb.
	PHYS 286 (S)	Modern Physics Lab	2		
	PHYS 282 (S)	Techniques of Theoretical Physics (optional, recommended for P422/424)	3		
	Other (optional)	<ul style="list-style-type: none"> • MATH 235 (Linear Alg, for P424) • PHYS 397 (Prof Development) • Concentration course 	3 1 -		
F3	PHYS 381 (F or S)	Writing in Physics (required)		3	
	Other (optional)	<ul style="list-style-type: none"> • TA, PHYS 390T, or indep. study 			
S3	Other (optional)	<ul style="list-style-type: none"> • PHYS 397 Professional Development • Apply for summer job/internship 	1 -		
F4 S4	PHYS 440 (F or S)	Intermed. Lab (ILab) – must email instructors. Required.		4	

Concentration in an area of focus: Minimum 18 credits. Courses must be specified on page 2 of this form and approved by your physics advisor. We recommend seeking advice on course selection from advisors in other departments.

Advanced course requirement: At least one of: P421(F) Mechanics, 422(S)** E&M, 423(S) Statistical Phys, or 424(F)**, PHYS 531 Electronics, 551*** Biological Physics, 553*** Optics, or other 500-level physics only if approved in advance by UPD. **Should not take P422 or 424 without previously taking P282. *** 500-level courses might have 400-level pre-reqs.

F3	PHYS 381 (F or S)	Writing in Physics (required)		3	
	Other (optional)	<ul style="list-style-type: none"> • TA, PHYS 390T, or indep. study 			
S3	Other (optional)	<ul style="list-style-type: none"> • PHYS 397 Professional Development • Apply for summer job/internship 	1 -		
F4 S4	PHYS 440 (F or S)	Intermed. Lab (ILab) – must email instructors. Required.		4	

