

Physics Major - Applied Track (BS) Checklist

Student Name _____ ID# _____ email _____

Date _____ Advisor Signature & Date _____

<u>Course</u>	<u>Title</u>	<u>Semester/Year</u>	<u>Cr</u>	<u>Grade</u>
Physics 181 (Fall)	Physics I (mechanics)	_____	4	_____
Physics 185 (Fall)	Freshman seminar (recommended)	_____		
Math 131	Calculus I	_____	4	_____
Physics 182 (Spring)	Physics II (E&M)	_____	4	_____
Physics 186 (Spring)	Freshman seminar (recommended)	_____		
Math 132 (F or S)	Calculus II	_____	4	_____
Physics 287 (Fall)	Physics III (thermo, fluids, waves...)	_____	3	_____
Physics 289 (Fall)	Physics III Lab	_____	1	_____
Physics 281 (Fall)	Computational Physics	_____	3	_____
Math 233 (F or S)	Multivariate Calculus	_____	3	_____
Physics 284 (Spring)	Modern Physics I	_____	3	_____
Physics 286 (Spring)	Lab for Modern Physics I	_____	2	_____
Physics 282 (Spring)	Tech. of Th. Physics (strongly recomb.)	_____		
Physics 381 (Fall)	Writing in Physics	_____	3	_____
Physics 440 (F or S)	Intermediate Lab	_____	4	_____
Math 235 (F or S)	Linear algebra (recommended)	_____		

Advanced Course Requirements. (a) At least two of: P421 Mechanics, 422** E&M, 423 Statistical Phys, 424** Quantum Mech; *and* (b) one of: 531 Electronics, 551 Biological Physics, 553 Optics, 556 Nuclei and Elementary Particles, 558 Solid State, 562 Advanced E&M, 564 Advanced Quantum Mechanics, 568 General Relativity, A337 Optical and IR Astronomy, A338 Radio Astronomy, A451 Astrophysics I, A452 Astrophysics II. **You should not take P422 or 424 without taking P282 beforehand.

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Concentration in a Scientific/Technical Field. Minimum 18 credits, approved by your Physics advisor.*

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

In a few sentences below or attached, explain (a) what is the specific focus or rationale for your 18-credit concentration and (b) how the selected courses fit in with these goals.

* Courses used to fulfill the A-track concentration cannot also be used to fulfill the requirements of another major.