

University of Massachusetts
Dartmouth Department of Physics
Physics Audit and Progress Sheet

Name: _____ SID: _____

Entering Term: _____ E-Mail: _____

Advisor	Sem

Total Credits: _____ (120 minimum) Total Credits in Major _____ (45 minimum)

Total Credits at 300 level or higher _____ (30 minimum)

Cum GPA: _____ (2.00 min) GPA in Major _____ (2.00 min)

Physics Required Courses (41 credits)

Completed

Course	Title	Cr	Gr	Sem	Prereq (p) or Coreq (c) or permission of instructor (perm)
PHY 111/113	Physics I	4			c: MTH 151/153
PHY 112/114	Physics II	4			p: PHY 111/113 c: MTH 152/154
PHY 115	Physics III	3			p: MTH 151/153; PHY 113
PHY 213	Modern Physics	3			p: PHY 112/114; MTH 152/154
PHY 225	Intro Expt Physics I	3			p: ENL 102; PHY 113; MTH 151/153; or perm
PHY 234	Interm Math Phys	3			p: PHY 112/114, MTH 211/213
PHY 313	Mechanics	3			p: PHY 115; PHY 234; MTH 211/213; or perm
PHY 322	Elec Dev/Circuits	3			p: PHY 112/114; PHY 225; MTH 211/213; or perm
PHY 341	Quantum Mech I	3			p: PHY 213, PHY 234; or perm
PHY 342	Quantum Mech II	3			p: PHY 341; or perm
PHY 411	E&M I	3			p: PHY 234; or perm
PHY 421	Adv Physics Lab	3			p: PHY 213, PHY 225
PHY 430/480/490	Capstone project	3			or an equivalent approved course/project

Physics Electives (at least 4 credits from this list; also see 300+ credits next page)

Completed

Course	Title	Cr	Gr	Sem	Prereq (p) or Coreq (c) or perm of instructor (perm)
PHY 109	Fresh Seminar I	3			
PHY 110	Fresh Seminar II	1			
PHY 196	Directed Study	var			
PHY 210	Special Topics	3			
PHY 227	Intro Expt Phys II	1			p: PHY 225; c: PHY 213
PHY 252	Elem Astrophysics	3			p: PHY 112/114; or perm
PHY 296	Directed Study	var			
PHY 300	Junior Seminar	3			
PHY 314*	Wave Motion	3			p: PHY 234, MTH 211/213; or perm
PHY 343	Math Physics	3			p: PHY 234, MTH 211/213; or perm
PHY 363	Interm Astrophys	3			p: PHY 213, PHY 252; or perm
PHY 396	Directed Study	var			
PHY 410	Special Topics	3			p: variable, depending on topic
PHY 412*	E&M II	3			p: PHY 411; or perm
PHY 441*	Stat Thermo	3			p: PHY 213; p or c: PHY 341; or perm
PHY 442*	Solid State Physics	3			p: PHY 342; or perm
PHY 430	Physics Teaching	3			p: PHY 111/113, PHY 112/114, PHY 213, PHY 234
PHY 480	Undergr. Research	3			p: perm
PHY 490	Senior Thesis	3			
PHY 495	Indep Study	var			p: Upper-division standing; perm instructor, chair, dean
PHY 496	Directed Study	var			
PHY 510	Special Topics	3			p: variable, depending on topic
PHY 521	Computation Phys	3			p: CIS 115 and PHY 313 or equivalents
PHY 531*	Interm QM I	3			

* Recommended for students intending to pursue graduate study in physics

Math (at least 12 credits) + Comp Programming (Required: MTH 280 or alternate, with perm) Completed

Course	Title	Cr	Gr	Sem	Prereq (p) or Coreq (c) or perm of instructor (perm)
MTH 151/153	Calc I	4			
MTH 152/154	Calc II	4			p: MTH 151/153
MTH 211/213	Calc III	4			p: MTH 152/154
MTH 212**	Diff Eq I	3			p: MTH 152/154
MTH 280 (or alt)	Sci Programming	3			p: MTH 152/154, or perm; c: MTH 211/213, 212 or 221

** Recommended

Second Science Electives (6 major credits in same dept.; or an eligible physics concentration) Completed

Course	Title	Cr	Gr	Sem	
		3			
		3			

University Studies Completed

1A: ENL 101	Crit. Writing I	3			
1B: ENL 102	Crit. Writing II	3			
1C: PHY 225	Interm. Writing	3			
1D: MTH 151	Math	3			
1E: PHY 109	Found. Learning	3			e.g. CAS 101, EGR 111 in case of transfer
2A: PHY 112/114	Science A	3			
2B: PHY 115	Science B	3			
3A:	Literature	3			e.g. ENL 200, FRN 204
3B:	Vis/Perform Arts	3			e.g. MUS 101, ARH 102
4A:	Human Questions	3			e.g. HST 101, PHL 101
4B:	US Society	3			e.g. PSC 101, SOA 101
4C:	Global Society	3			e.g. HST 103, ECO 107
5A:	Capstone	3			e.g. PHY 430/480/490/495
5B:	Learn Engagement				automatic for approved 5A

Total Credits at 300 level or higher (at least 30 credits) Completed

Course	Title	Cr	Gr	Sem	Info after title necessary only if not listed above
1		3			
2		3			
3		3			
4		3			
5		3			
6		3			
7		3			
8		3			
9		3			
10		3			
11		3			
12		3			

Notes