

DEPARTMENT OF PHYSICS AND ASTRONOMY
SPRING TERM 2022 (2224); SCHEDULE OF CLASSES

Classes Begin: Monday, January 10, 2022

ASTRONOMY

<u>NO.</u>	<u>CLASS#</u>	<u>TITLE</u>	<u>DAY AND TIME</u>	<u>ROOM</u>	<u>INSTRUCTOR</u>
0086	23791	Observational Astronomy	M & H 6:00-6:50 pm	104 Thaw	Stein (30)-closed
0086	23792	Observatory	M 7:30-10:30 pm OR	Alleg. Obs. (15) (wait 2)	
0086	23793	Observatory	H 7:30-10:30 pm	Alleg. Obs. (15)	
0087	10876	Basics of Space Flight	TH 2:30-3:45 pm	104 Thaw	Good (80) closed
0088	10683	Stonehenge to Hubble	MWF 11:00-11:50 am	343 Alumni	Badenes (130) closed
0088	23794	Stonehenge to Hubble	W 6:00-8:30 pm	104 Thaw	Rao (90) closed Grader: Suarez
0089	10437	Stars, Galx. & Cosmos	MWF 2:00-2:50 pm	102 Thaw	Newman (119) closed
	10545	Recitation	H 3:00-3:50 pm	103 Allen	Radzilowicz (39)
	10547	Recitation	F 12:00-12:50 pm	11 Thaw	Radzilowicz (40)
	10546	Recitation	F 1:00-1:50 pm	11 Thaw	Radzilowicz (40)
0089	17295	Stars, Galx. & Cosmos	TH 1:00-2:15 pm	102 Thaw	Rao (118) closed
	17558	Recitation	H 4:00-4:50 pm	103 Allen	Mezini (37)
	17559	Recitation	F 2:00-2:50 pm	11 Thaw	Mezini (41)
	21780	Recitation	F 3:00-3:50 pm	11 Thaw	Mezini (40)
0113	10873	Intro to Astronomy	TH 9:00-10:15 am	104 Thaw	Hillier (42)
0413	23107	Honors Intro Astronomy	H 12-12:50 pm	104 Thaw	Yao, M. (6)
			TH 9:00-10:15 am	104 Thaw	
1121	29052	Galaxies and Cosmology	TH 11:00-12:15 pm	210 Thaw	Schneider (18)
1900	10516	Internship	By Appt.	100 AH	
1901	10230	Independent Study	By Appt.	100 AH	
1902	10225	Directed Reading (Spec.Per.)	By Appt.	100 AH	
1903	10227	Directed Research	By Appt.	100 AH	
2000	10234	Res. & Thesis/MS Deg.	By Appt.	100 AH	
2990	10237	Independent Study (Spec. Per.)	By Appt.	100 AH	
2998	10236	Teach. Astronomy/Prac.	By Appt.	100 AH	
3000	10240	Res. & Dissr./PhD	By Appt.	100 AH (1)	
3580	29053	Galactic & Extragal Astron	MW 1:00-2:15 pm	210 Thaw	Bezanson (10)
3902	10242	Directed Study (Spec. Per.)	By Appt.	100 AH	
3907	23970	Directed Research	By Appt.	100 AH (1)	

PHYSICS

<u>CAT#</u>	<u>CLASS#</u>	<u>TITLE</u>	<u>DAY AND TIME</u>	<u>ROOM</u>	<u>INSTRUCTOR</u>
0087	21625	Physics and Society	TH 2:30-3:45 pm	102 Thaw	Swanson (60)
0088	33096	Phys of Energy	MW 12:00-1:15 pm	102 Thaw	Zentner (43)
0091	24639	Conceptual Physics	MF 8:30-9:50 am	104 Thaw	Paolone (19)
0091	26014	Recitation	F 10-10:50 am	11 Thaw	Chen, L. (19)
0110	10430	Intro. To Physics 1	MWF 1:00-1:50 pm	343 Alumni	Broccio (244)
0110	10107	Recitation	M 2:00-2:50 pm	105 Allen	Broccio (35) (wait 3)
0110	11369	Recitation	M 3:00-3:50 pm	105 Allen	Liu, S. (34)
0110	10108	Recitation	M 3:00-3:50 pm	11 Thaw	Meador (34)
0110	10869	Recitation	T 10:00-10:50 am	105 Allen	Liu, S. (34)
0110	10109	Recitation	T 11:00-11:50 am	105 Allen	Meador (34)
0110	10870	Recitation	T 12:00-12:50 pm	105 Allen	Meador (33)
0110	33449	Recitation	T 1:00-1:50 pm	210 Thaw	Liu, S. (33)
0110	17601	Intro to Physics 1	MW 6:00-7:20 pm	343 Alumni	Albu (172)
0110	20941	Recitation	M 7:30-8:15 pm	343 Alumni	Albu (35) (wait 3)
0110	33448	Recitation	M 7:30-8:15 pm	11 Thaw	Gan, J. (35)
0110	17602	Recitation	W 5:00-5:50 pm	106 Allen	Gan, J. (35)
0110	21942	Recitation	W 5:00-5:50 pm	11 Thaw	Albu (35)
0110	21125	Recitation	W 7:30-8:15 pm	343 Alumni	Albu (35)
0111	10431	Intro. To Physics 2	MWF 12:00-12:50 pm	343 Alumni	Salman (224) (238)
0111	11370	Recitation	M 1:00-1:50 pm	11 Thaw	Khan, M. (33) (wait 3)
0111	33312	Recitation	M 1:00-1:50 pm	105 Allen	Wang, S. (27)
0111	11100	Recitation	M 2:00-2:50 pm	11 Thaw	Santana, L. (31)
0111	10872	Recitation	T 12:00-12:50 pm	11 Thaw	Wang, S. (34)
0111	10871	Recitation	T 1:00-1:50 pm	11 Thaw	Wang, S. (34)
0111	27996	Recitation	T 3:00-3:50 pm	11 Thaw	Khan, M. (31)
0111	30201	Recitation	T 4:00-4:50 pm	11 Thaw	Khan, M. (28)
0111	17291	Intro to Physics 2	TH 11:00-12:15 pm	343 Alumni	Dutt (201) (231)
0111	27997	Recitation	W 12:00-12:50 pm	105 Allen	Santana (27)
0111	18191	Recitation	W 2:00-2:50 pm	105 Allen	Khan, R. (32)
0111	17292	Recitation	W 3:00-3:50 pm	105 Allen	Khan, R. (32)
0111	24068	Recitation	H 1:00-1:50 pm	105 Allen	Chernyashevskyy (33)
0111	17293	Recitation	H 2:00-2:50 pm	105 Allen	Santana (30)
0111	17294	Recitation	H 3:00-3:50 pm	105 Allen	Chernyashevskyy (20)
0111	21656	Recitation	H 4:00-4:50 pm	105 Allen	Khan, R. (26)
0111	10113	Intro. To Physics 2	TH 6:00-7:20 pm	343 Alumni	Broccio (136) closed
0111	11035	Recitation	T 5:00-5:50 pm	343 Alumni	Gan (35) (wait 10)
0111	10114	Recitation	T 7:30-8:15 pm	343 Alumni	Burk (34)
0111	11371	Recitation	H 5:00-5:50 pm	343 Alumni	Broccio (35)
0111	33292	Recitation	H 7:30-8:15 pm	343 Alumni	Burk (33)

0174	10930	Bas. Phys. Sc. Eng. 1	TH 1:00-2:45 pm	343 Alumni	Broccio (215)(wait 2)
0174	10931	Recitation	W 1:00-1:50 pm	105 Allen	Yao, Q. (32)
0174	10932	Recitation	W 2:00-2:50 pm	11 Thaw	Yao, Q. (27)
0174	16446	Recitation	W 3:00-3:50 pm	11 Thaw	Chernyashevskyy (30)
0174	17068	Recitation	W 4:00-4:50 pm	11 Thaw	Yao, Q. (30)
0174	22040	Recitation	H 10:00-10:50 am	105 Allen	Broccio (32)
0174	10933	Recitation	H 11:00-11:50 pm	105 Allen	Chen, L. (33)
0174	24253	Recitation	H 12:00-12:50 pm	105 Allen	Chen, L. (32)
0175	10934	Bas. Phys. Sc. Eng. 2	TH 11:00-12:45 pm	102 Thaw	Good (58) (wait 1)
0175	10935	Recitation	W 12:00-12:50 pm	11 Thaw	Nero (22)
0175	18192	Recitation	W 1:00-1:50 pm	11 Thaw	Nero (22)
0175	10936	Recitation	H 10:00-10:50 am	103 Allen	Good (13)
0175	10937	Bas. Phys. Sc. Eng. 2	MF 8:00-8:50 am	343 Alumni	Devaty (69)
			W 8:00-9:50 am	343 Alumni	
0175	10939	Recitation	M 9:00-9:50 am	11 Thaw	Huang, W. (17)
0175	10938	Recitation	M 9:00-9:50 am	106 Allen	Bonidie (16)
0175	11036	Recitation	F 9:00-9:50 am	11 Thaw	Bonidie (27)
0175	23960	Recitation	F 11:00-11:50 am	105 Allen	Bonidie (9)
0175	10846	Bas. Phys. Sc. Eng. 2	MWF 4:00-4:50 pm	343 Alumni	Nero (164)
0175	10874	Recitation	M 5:00-5:50 pm	11 Thaw	Monroy (31)
0175	32900	Recitation	M 5:00-5:50 pm	105 Allen	Koester (25)
0175	10875	Recitation	W 5:00-5:50 pm	102 Thaw	Monroy (32)
0175	11037	Recitation	W 5:00-5:50 pm	104 Thaw	Koester (31)
0175	11038	Recitation	F 5:00-5:50 pm	11 Thaw	Monroy (30)
0175	33356	Recitation	F 5:00-5:50 pm	105 Allen	Koester (16)
0175	23795	Bas. Phys. Sc. Eng. 2	MWF 5:00-5:50 pm	343 Alumni	Nero (155)
0175	23796	Recitation	M 4:00-4:50 pm	105 Allen	Ligato (32)
0175	23797	Recitation	W 4:00-4:50 pm	105 Allen	Ligato (32)
0175	23798	Recitation	W 4:00-4:50 pm	103 Allen	Huang, W. (32)
0175	23799	Recitation	F 4:00-4:50 pm	105 Allen	Ligato (28)
0175	32901	Recitation	F 4:00-4:50 pm	11 Thaw	Huang, W. (32)
0175	10940	Bas. Phys. Sc. & Eng. 2	TH 6:00-7:45 pm	102 Thaw	Liu (51)
0175	10941	Recitation	T 5:00-5:50 p.m.	102 Thaw	Leys (23)
0175	16447	Recitation	H 5:00-5:50 pm	102 Thaw	Leys (17)
0175	21626	Recitation	H 8:00-8:50 p.m.	102 Thaw	Leys (14)

0212	10116	Intro. Lab. Phys. Lec.	M 9:00-9:50 am	343 Alumni	Clark (155)
0212	10117	Laboratory	M 10:00-12:50 pm	408 OEH	Li, Z. (27)
0212	10565	Laboratory	M 1:00-3:50 pm	408 OEH	Hu, M. (25)
0212	27454	Laboratory	M 4:00-6:50 pm	408 OEH	Nowicki (27)
0212	10118	Laboratory	T 8:00-10:50 am	408 OEH	Abdelerahm (24)
0212	11372	Laboratory	W 9:00-11:50 am	408 OEH	Abdelerahm (29)
0212	11337	Laboratory	W 12:00-2:50 pm	408 OEH	Nowicki (21)
0212	10119	Intro. Lab. Phys. Lec.	T 9:00-9:50 am	343 Alumni	Clark (137)
0212	10121	Laboratory	T 12:00-2:50 pm	408 OEH	Wu, C. (21)
0212	10122	Laboratory	T 3:00-5:50 pm	408 OEH	Wu, C. (21)
0212	10123	Laboratory	W 3:00-5:50 pm	408 OEH	Li, Z. (23)
0212	11101	Laboratory	H 8:00-10:50 am	408 OEH	Hu, M. (27)
0212	10125	Laboratory	H 12:00-2:50 pm	408 OEH	Harris (20)
0212	28000	Laboratory	H 3:00-5:50 pm	408 OEH	Harris (22)
0212	10161	Intro. Lab. Phys. Lec.	M 6:00-6:50 pm	102 Thaw	Clark (98)
0212	10162	Laboratory	M 7:00-9:50 pm	408 OEH	Cao, S. (23)
0212	17603	Laboratory	T 6:00-8:50 pm	408 OEH	Qin, H. (31)
0212	17802	Laboratory	W 6:00-8:50 pm	408 OEH	Qin, H. (27)
0212	17803	Laboratory	H 6:00-8:50 pm	408 OEH	Cao, S. (20)
0219	10126	Bas. Lab. Phys. Sc. & Eng.	M 3:00-3:50 pm	343 Alumni	Clark (42)
0219	10127	Laboratory	M 7:00-9:50 pm	402 OEH	Beheshti (15)
0219	11102	Laboratory	W 12:00-2:50 pm	402 OEH	Beheshti (10)
0219	10129	Laboratory	H 3:00-5:50 pm	402 OEH	Clark (15)
0476	10130	UHC Bas. Phys. Sc. Eng. 2	MWF 11:00-11:50 am	104 Thaw	Hong (30)
0476	10131	Recitation	T 11:00-11:50 am	104 Thaw	Burk
0476		Recitation	H 11:00-11:50 am	104 Thaw	Burk
0481	11039	Principles of Modern Phys. 2	MWF 11-11:50 am	11 Thaw	Mueller (7)
0525	10746	Analog & Digital Electronics	T 11:00-12:55 pm	106 Allen	Hatridge (18)
0525	10747	Laboratory	T 2:00-4:55 pm	324 OEH	Gomanko
1310	14996	Undergrad Seminar	W 12:00-12:50 pm	106 Allen	Clark (15)
1331	21622	Mechanics	MWF 1:00-1:50 pm	104 Thaw	Purdy (35)
				Grader: Yao	
1341	10142	Thermodyn & Stat.Mechanics	TH 9:30-10:45 am	11 Thaw	Mugler (32)
				Grader: Gomez	
1371	10144	Intro to Quantum Mech. 2	MWF 11:00-11:50 am	102 Thaw	Singh (15)
				Grader: Gomez	
1372	11006	Electromagnetic Theory	MWF 10:00-10:50 am	105 Allen	Paolone (9)
				Grader: Suarez	
1378	31338	Intro to Nuclear/Particle	MWF 2:00-2:50 pm	106 Allen	Batell (9)

1426	10138	Modern Physics Laboratory	H 11:00-11:50 am	106 Allen	Naples (6)
1426	10139	Laboratory	H 1:00-3:50 pm	318 OEH	Danko
1626	10438	Mod. Phys. Lab/Writ	W 9:00-9:50 am	105 Allen (3)	
1900	10136	Internship (Spec. Per.)	By Appt.	100 Allen	
1901	10135	Independent Study (Spec. Per)	By Appt.	100 Allen	
1902	10132	Directed Reading (Spec. Per.)	By Appt.	100 Allen	
1903	10133	Directed Research (Spec. Per.)	By Appt.	100 Allen (30)	
1904	24640	Exper. In Undergrad Teaching	By Appt.	100 Allen (12)	
2000	10146	Res. & Thesis MS Deg.	By Appt.	100 Allen	
2341	30586	Thermo & Stat. Mechanics	TH 9:30-10:45 am	11 Thaw	Mugler (3)
2371	30587	Intro to Quantum Mech. 2	MWF 11:00-11:50 am	102 Thaw	Singh (4)
2372	30588	Electromagnetic Theory	MWF 10:00-10:50 am	105 Allen	Paolone (3)
2541	11007	Thermo. & Stat. Mech.	TH 9:30-10:45 am	106 Allen	Mong (15) grader: Wang, T.
2555	16443	Adv. Class. Elec. & Magn 2	MF 10:00-10:50 am W 9:00-10:50 am	106 Allen 106 Allen	Freitas (18) grader: Wang, T.
2566	10147	Non-Relatv. Quantm. Mech. 2	MWF 11:00-11:50 am	106 Allen	Batell (17) grader: Wang T.
2900	21104	Graduate Internship	By Appt.	100 Allen	
2990	10148	Independent Study	By Appt.	100 Allen (1)	
2998	10151	Teaching Phys./Prac.	By Appt.	100 Allen	Kosowsky (26)
2999	16444	Phys. And Astron. Colloq.	By Appt.	100 Allen	Rao (18)
3000	10149	Res. & Dissert/PhD	By Appt.	100 Allen (28)	
3102	27732	SpecTopics: Quantum Transport	By Appt.	100 Allen	Frolov (3)
3542	29054	Adv. Statistical Physics	TH 2:30-3:45 pm	106 Allen	Mong (16)
3715	31339	Solid State Physics	TH 1:00-2:15 pm	106 Allen	Snoke (4)
3718		Adv. Particle Physics	CMU		CMU
3726	29055	General Relativity 2	MWF 10:00-10:50 am	103 Allen	Boyanovsky (8)
3766	31340	Field Theory 2	MWF 3:00-3:50 pm	106 Allen	Boyanovsky (15)
3903	10150	Directed Study (Spec. Per.)	By Appt.	100 Allen	
3907	23949	Directed Research	By Appt.	100 Allen (28)	

FULL-TIME DISSERTATION STUDY*

3999 FTDB 0 credits

**Doctoral students must have completed all formal coursework and the 72 minimum credits required for the PhD. A&S permits FTDS students to register for an additional 6 credits if they discover a course or two of interest to their research and studies.*