

DEPARTMENT OF PHYSICS AND ASTRONOMY

SPRING TERM 2020; SCHEDULE OF CLASSES

Classes Begin: Monday, January 6, 2020

ASTRONOMY

<u>NO.</u>	<u>CLASS#</u>	<u>TITLE</u>	<u>DAY AND TIME</u>	<u>ROOM</u>	<u>INSTRUCTOR</u>
0086	24620	Observational Astronomy	M & H 6:00-6:50 pm	104 Thaw	Stein
0086	24621	Observatory	M 7:30-10:30 pm OR	Alleg. Obs.	
0086	24622	Observatory	H 7:30-10:30 pm	Alleg. Obs.	
0087	10908	Basics of Space Flight	TH 2:30-3:45 pm	104 Thaw	Good
0088	10708	Stonehenge to Hubble	MWF 11:00-11:50 am	343 Alumni	Badenes
0088	24623	Stonehenge to Hubble	W 6:00-8:30 pm	104 Thaw	(grader: Caddy)+ Radzilowicz (no grader needed)
0089	10457	Stars, Galx. & Cosmos	MWF 2:00-2:50 pm	102 Thaw	Rao
	10566	Recitation	H 3:00-3:50 pm	103 Allen	Mezini, L.
	10568	Recitation	F 12:00-12:50 pm	11 Thaw	Mezini, L.
	10567	Recitation	F 1:00-1:50 pm	11 Thaw	Mezini, L.
0089	17792	Stars, Galx. & Cosmos	TH 1:00-2:15 pm	102 Thaw	Rao
	18070	Recitation	H 4:00-4:50 pm	103 Allen	Splettstosser, M.
	18071	Recitation	F 2:00-2:50 pm	11 Thaw	Splettstosser, M.
	22433	Recitation	F 3:00-3:50 am	11 Thaw	Splettstosser, M.
0113	10905	Intro to Astronomy	TH 9:00-10:15 am	104 Thaw	Hillier
0413	23899	Honors Intro Astronomy	H 12-12:50 pm	104 Thaw	(grader: Splettstosser)
			TH 9:00-10:15 pm	104 Thaw	
1121	31321	Galaxies & Cosmology	TH 11:00-12:15 pm	210 Thaw	Bezanson (grader? Tbd?)
1900	10536	Internship	By Appt.	100 AH	
1901	10242	Independent Study	By Appt.	100 AH	
1902	10237	Directed Reading (Spec.Per.)	By Appt.	100 AH	
1903	10239	Directed Research	By Appt.	100 AH	
2000	10246	Res. & Thesis/MS Deg.	By Appt.	100 AH	
2990	10249	Independent Study (Spec. Per.)	By Appt.	100 AH	
2998	10248	Teach. Astronomy/Prac.	By Appt.	100 AH	Salman
3000	10252	Res. & Dissr./PhD	By Appt.	100 AH	
3580	31322	Galactic & Extragal Astron.	TH 9:30-10:45 am	210 Thaw	Bezanson
3902	10254	Directed Study (Spec. Per.)	By Appt.	100 AH	
3907	24823	Directed Research	By Appt.	100 AH	

PHYSICS

<u>CAT#</u>	<u>CLASS#</u>	<u>TITLE</u>	<u>DAY AND TIME</u>	<u>ROOM</u>	<u>INSTRUCTOR</u>
0087	22243	Physics and Society	TH 2:30-3:45 pm	102 Thaw	Swanson
0089	31323	Physics and Science Fiction	TH 1:00-2:15 pm	104 Thaw	CANCELLED
0091	25557	Conceptual Physics	MF 8:30-9:50 am	104 Thaw	Good
	27150	Recitation	H 12:00-12:50 pm	11 Thaw	Mazzola, C.
	27151	Recitation	F 10:00-10:50 am	11 Thaw	Good (firm)
0110	10447	Intro. To Physics 1	MWF 1:00-1:50 pm	343 Alumni	Broccio
0110	10114	Recitation	M 2:00-2:50 pm	105 Allen	Khanna
0110	11422	Recitation	M 3:00-3:50 pm	103 Allen	Khanna
0110	10115	Recitation	M 3:00-3:50 pm	11 Thaw	Broccio
0110	10901	Recitation	T 10:00-10:50 am	105 Allen	Broccio
0110	10116	Recitation	T 11:00-11:50 am	105 Allen	Broccio
0110	10902	Recitation	T 12:00-12:50 pm	105 Allen	Khanna
0110	32802	Recitation	T 1:00-1:50 pm	210 Thaw	Khanna
0110	18122	Intro to Physics 1	MW 6:00-7:20 pm	343 Alumni	Dominick
0110	21546	Recitation	M 7:30-8:15 pm	343 Alumni	Gupta, A.
0110	32803	Recitation	M 7:30-8:15 pm	11 Thaw	Fierro, E.(+)
0110	18124	Recitation	W 5:00-5:50 pm	106 Allen	Gupta, A.
0110	22608	Recitation	W 5:00-5:50 pm	11 Thaw	Fierro, E.
0110	21732	Recitation	W 7:30-8:15 pm	343 Alumni	Gupta, A.
0111	10448	Intro. To Physics 2	MWF 12:00-12:50 pm	343 Alumni	Broccio
0111	11423	Recitation	M 1:00-1:50 pm	231 Lawrence	Pearl, A.
0111	32651	Recitation	M 1:00-1:50 pm	105 Allen	Omran, A.
0111	11146	Recitation	M 2:00-2:50 pm	231 Lawrence	Omran, A.
0111	10904	Recitation	T 12:00-12:50 pm	11 Thaw	Pearl, A.
0111	10903	Recitation	T 1:00-1:50 pm	11 Thaw	Pearl, A.
0111	30011	Recitation	T 3:00-3:50 pm	11 Thaw	Pearl, A.
0111	32652	Recitation	T 4:00-4:50 pm	11 Thaw	Omran, A.
0111	17788	Intro to Physics 2	TH 11:00-12:15 pm	343 Alumni	Good
0111	30012	Recitation	W 12:00-12:50 pm	231 Lawrence	Hyatt, T.
0111	18750	Recitation	W 2:00-2:50 pm	105 Allen	Hyatt, T.
0111	17789	Recitation	W 3:00-3:50 pm	103 Allen	Dieterlen, M.
0111	24929	Recitation	H 1:00-1:50 pm	105 Allen	Good, M.
0111	17790	Recitation	H 2:00-2:50 pm	105 Allen	Hyatt, T.
0111	17791	Recitation	H 3:00-3:50 pm	105 Allen	Dieterlen, M.
0111	22280	Recitation	H 4:00-4:50 pm	105 Allen	Dieterlen, M.
0111	10121	Intro. To Physics 2	TH 6:00-7:20 pm	343 Alumni	Liu
0111	11078	Recitation	T 5:00-5:50 pm	343 Alumni	ElGamel, M.
0111	33072	Recitation	T 5:00-5:50 pm	11 Thaw	Qin, Han
0111	10122	Recitation	T 7:30-8:15 pm	343 Alumni	ElGamel, M.
0111	11424	Recitation	H 5:00-5:50 pm	343 Alumni	ElGamel, M.
0111	32653	Recitation	H 7:30-8:15 pm	343 Alumni	ElGamel, M.

0174	10968	Bas. Phys. Sc. Eng. 1	TH 1:00-2:45 pm	343 Alumni	Nero
0174	10969	Recitation	W 1:00-1:50 pm	105 Allen	Caddy, R. (+)
0174	10970	Recitation	W 2:00-2:50 pm	11 Thaw	Caddy, R.
0174	16891	Recitation	W 3:00-3:50 pm	11 Thaw	Koester
0174	17549	Recitation	W 4:00-4:50 pm	11 Thaw	Koester
0174	22713	Recitation	H 10:00-10:50 am	105 Allen	Nero (firm)
0174	10971	Recitation	H 11:00-11:50 am	105 Allen	Koester
0174	25135	Reciation	H 12:00-12:50 pm	105 Allen	Koester
0175	10972	Bas. Phys. Sc. Eng. 2	TH 11:00-12:45 pm	102 Thaw	Naples
0175	10973	Recitation	W 12:00-12:50 pm	11 Thaw	Pardo, B.
0175	18751	Recitation	W 1:00-1:50 pm	11 Thaw	LeFebre, R.
0175	10974	Recitation	H 10:00-10:50 am	103 Allen	Herring, N.
0175	10975	Bas. Phys. Sc. Eng. 2	MF 8:00-8:50 am	343 Alumni	Wu
			W 8:00-9:50 am	343 Alumni	
0175	10977	Recitation	M 9:00-9:50 am	11 Thaw	Leung, S.C. (+)
0175	10976	Recitation	M 9:00-9:50 am	106 Allen	Caddy, R.
0175	30066	Recitation	M 9:00-9:50 am	105 Allen	Song, Q.
0175	32698	Recitation	M 9:00-9:50 am	103 Allen	Monroy, R. (+)
0175	11080	Recitation	F 9:00-9:50 am	11 Thaw	Leung, S.C.
0175	22281	Recitation	F 9:00-9:50 am	106 Allen	Song, Q.
0175	24811	Recitation	F 11:00-11:50 am	105 Allen	Song, Q.
0175	10878	Bas. Phys. Sc. Eng. 2	MWF 4:00-4:50 pm	343 Alumni	Nero
0175	10906	Recitation	M 5:00-5:50 pm	231 Lawrence Howard, M.	
0175	10907	Recitation	W 5:00-5:50 pm	231 Lawrence Howard, M.	
0175	11081	Recitation	W 5:00-5:50 pm	233 Lawrence	Monroy, R.
0175	11082	Recitation	F 5:00-5:50 pm	105 Allen	Jardine, M.
0175	22282	Recitation	F 5:00-5:50 pm	106 Allen	Monroy, R.
0175	24625	Bas. Phys. Sc. Eng. 2	MWF 5:00-5:50 pm	343 Alumni	Nero
0175	24626	Recitation	M 4:00-4:50 pm	105 Allen	Howard, M.
0175	24627	Recitation	W 4:00-4:50 pm	105 Allen	Howard, M.
0175	24628	Recitation	W 4:00-4:50 pm	103 Allen	Monroy, R.
0175	24629	Recitation	F 4:00-4:50 pm	105 Allen	Jardine, M.
0175	24630	Recitation	F 4:00-4:50 pm	106 Allen	Monroy, R.
0175	10978	Bas. Phys. Sc. & Eng. 2	TH 6:00-7:45 pm	102 Thaw	Dominick
0175	10979	Recitation	T 5:00-5:50 p.m.	102 Thaw	LeFebre, R. (+)
0175	16892	Recitation	H 5:00-5:50 pm	102 Thaw	LeFebre, R.
0175	22244	Recitation	H 8:00-8:50 p.m.	102 Thaw	LeFebre, R.

0212	10125	Intro. Lab. Phys. Lec.	M 9:00-9:50 am	343 Alumni	Clark
0212	10126	Laboratory	M 10:00-12:50 pm	408 OEH	Sheridan (firm)
0212	10587	Laboratory	M 1:00-3:50 pm	408 OEH	Cao, S.
0212	29048	Laboratory	M 4:00-6:50 pm	408 OEH	Wang, Z.
0212	10127	Laboratory	T 8:00-10:50 am	408 OEH	Wang, T. (firm)
0212	11425	Laboratory	W 9:00-11:50 am	408 OEH	Zhou, Z. (firm)
0212	11390	Laboratory	W 12:00-2:50 pm	408 OEH	Wang, Z.
0212	10128	Intro. Lab. Phys. Lec.	T 9:00-9:50 am	102 Thaw	Clark
0212	10130	Laboratory	T 12:00-2:50 pm	408 OEH	Wijesinghe, P.
0212	10131	Laboratory	T 3:00-5:50 pm	408 OEH	Reza, T.
0212	10132	Laboratory	W 3:00-5:50 pm	408 OEH	Mudi, S. (firm)
0212	11150	Laboratory	H 8:00-10:50 am	408 OEH	Zhou, Z. (firm)
0212	10134	Laboratory	H 12:00-2:50 pm	408 OEH	Wang, T.
0212	30016	Laboratory	H 3:00-5:50 pm	408 OEH	Wijesinghe, P.
0212	10170	Intro. Lab. Phys. Lec.	M 6:00-6:50 pm	102 Thaw	Clark
0212	10171	Laboratory	M 7:00-9:50 pm	408 OEH	Li, Z.
0212	18125	Laboratory	T 6:00-8:50 pm	408 OEH	Li, Z.
0212	18342	Laboratory	W 6:00-8:50 pm	408 OEH	Reza, T.
0212	18343	Laboratory	H 6:00-8:50 pm	408 OEH	Cao, S.
0219	10135	Bas. Lab. Phys. Sc. & Eng.	M 3:00-3:50 pm	102 Thaw	Clark
0219	10136	Laboratory	M 7:00-9:50 pm	402 OEH	Beheshti, A.
0219	11151	Laboratory	W 12:00-2:50 pm	402 OEH	Beheshti, A.
0219	10138	Laboratory	H 3:00-5:50 pm	402 OEH	Malespina
0411	29049	Physics of the Human Body 2	W 4:00-4:50 pm	106 Allen	Broccio
0476	10139	UHC Bas. Phys. Sc. Eng. 2	MWF 11:00-11:50 am	104 Thaw	Hong
0476	10140	Recitation	T 11:00-11:50 am	104 Thaw	Jardine,(+)
0476	10140	Recitation	H 11:00-11:50 am	104 Thaw	Jardine
0481	11083	Principles of Modern Phys. 2	MWF 11-11:50 am	11 Thaw	Mueller
0525	10775	Analog & Digital Electronics	T 11:00-12:55 pm	106 Allen	Dutt
0525	10776	Laboratory	T 2:00-4:55 pm	324 OEH	Harris, E.
1310	15302	Undergrad Seminar	W 12:00-12:50 pm	106 Allen	Clark
1331	22240	Mechanics	MWF 1:00-1:50 pm	104 Thaw	Savinov (grader: Fierro)
1341	10151	Thermodyn & Stat.Mechanics	TH 9:30-10:45 am	11 Thaw	Mong (grader: Sheridan)
1371	10153	Intro to Quantum Mech. 2	MWF 11:00-11:50 am	102 Thaw	Petek (grader: Han, Q.)
1372	11047	Electromagnetic Theory	MWF 10:00-10:50 am	105 Allen	Boudreau (grader: Song, Q.)
1378	29050	Intro to Nuclear/Particle	MWF 2:00-2:50 pm	106 Allen	Boudreau Canceled

1426	10147	Modern Physics Laboratory	H 11:00-11:50 am	106 Allen	Paolone
1426	10148	Laboratory	H 1:00-3:50 pm	318 OEH	Mudi (+)
1626	10458	Mod. Phys. Lab/Writ	W 9:00-9:50 am	105 Allen	Paolone
1900	10145	Internship (Spec. Per.)	By Appt.	100 Allen	
1901	10144	Independent Study (Spec. Per)	By Appt.	100 Allen	
1902	10141	Directed Reading (Spec. Per.)	By Appt.	100 Allen	
1903	10142	Directed Research (Spec. Per.)	By Appt.	100 Allen	
1904	25559	Exper. In Undergrad Teaching	By Appt.	100 Allen	
2000	10155	Res. & Thesis MS Deg.	By Appt.	100 Allen	
2341	33066	Thermodyn & Stat.Mechanics	TH 9:30-10:45 am	11 Thaw	Mong
2371	33067	Intro to Quantum Mech. 2	MWF 11:00-11:50 am	102 Thaw	Petek
2372	33068	Electromagnetic Theory	MWF 10:00-10:50 am	105 Allen	Boudreau
2541	11048	Thermo. & Stat. Mech.	TH 9:30-10:45 am	106 Allen	Liu (grader: Leung, S.C.)(+)
2555	16888	Adv. Class. Elec. & Magn 2	MF 10:00-10:50 am W 9:00-10:50 am	106 Allen 106 Allen	Devaty (grader Rai, M.)
2566	10156	Non-Relatv. Quantm. Mech. 2	MWF 11:00-11:50 am	106 Allen	Zentner (grader Rai, M.)
2900	21710	Graduate Internship	By Appt.	100 Allen	
2990	10157	Independent Study	By Appt.	100 Allen	
2998	10160	Teaching Phys./Prac.	By Appt.	100 Allen	Salman
2999	16889	Phys. And Astron. Colloq.	By Appt.	100 Allen	Rao
3000	10158	Res. & Dissar/PhD	By Appt.	100 Allen	
3102	29584	Special Topics	MW 11:00-12:15 pm	103 Allen	Purdy
3542	31324	Adv. Statistical Physics	TH 2:30-3:45 pm	106 Allen	Mong
3718	27152	Adv. Particle Physics	MWF 3:00-3:50 pm	105 Allen	Boyanovsky Cancel
3726	31325	General Relativity 2	MWF 10:00-10:50 am	103 Allen	Boyanovsky
3766		Field Theory 2 (33771)	MWF 1:30-2:20	DH 2105	Morningstar (CMU)
3903	10159	Directed Study (Spec. Per.)	By Appt.	100 Allen	
3907	24797	Directed Research	By Appt.	100 Allen	
FULL-TIME DISSERTATION STUDY*					
3999	10482	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.**