

## Preliminary Course Syllabus

	<p>Monday, Aug. 29 (03 UT) Moon New Tuesday, Aug. 30 (17 UT) Jupiter Stationary Tuesday, Aug. 30 (18 UT) Moon at Perigee Saturday, Sept. 3 (07 UT) Mercury Greatest Elongation West (18°)</p>
Aug. 30, Sept. 1	<p>Birth of Astronomy/Getting Started <i>Prepare:</i> Evans: Chapter §§1.1-1.8 Duncan: Introductions and Chapter 1 <i>Observations:</i> Evans §§1.2, 1.7 in notebook <i>Assignments:</i> Evans §1.5 in notebook, timelines Make/use a shadow table (see §§1.5, 1.13) before, on, &amp; after the equinox</p>
	<p>Sunday, Sept. 4 (14 UT) Antares 3.7° S of Moon Sunday, Sept. 4 (17 UT) Moon Waxing Quarter Thursday, Sept. 8 (09 UT) Mars 5.9° S of Pollux</p>
Sept. 6, 8	<p>Birth of Astronomy (cont'd) <i>Prepare:</i> Evans: Chapter §§1.9-1.18; Duncan: Chaps. 2 &amp; 3 Zodiacal constellations <i>Observations:</i> Evans §§1.11, 1.16 in notebook <i>Assignments:</i> Evans §§1.13, 1.15, 1.18 in notebook Choose culture/calendar of interest</p>
	<p>Monday, Sept. 12 (09 UT) Moon Full Thursday, Sept. 15 (06 UT) Moon at Apogee Monday, Sept. 16 (15 UT) Jupiter 4.6° S of Moon</p>
Sept. 13, 15	<p>Celestial Sphere <i>Prepare:</i> Evans: Chapter §§2.1-2.8; Duncan: Chaps. 4 &amp; 5 Aristotle: extracts from <i>On the Heavens</i> <i>Observation:</i> Evans §2.8 in notebook <i>Assignments:</i> Evans §§2.3, 2.7 in notebook Culture/calendar paper proposal written, corrected &amp; critiqued, due 9/20</p>
	<p>Tuesday, Sept. 20 (13 UT) Moon Waning Quarter Friday, Sept. 23 (06 UT) Mars 4.6° N of Moon Friday, Sept. 23 (09 UT) Autumnal Equinox</p>
Sept. 20, 22	<p>Celestial Sphere (cont'd) <i>Prepare:</i> Evans: Chapter §§2.9-2.17; Duncan: Chaps. 6 &amp; 7 <i>Observation:</i> Equinox; Evans §2.17 in notebook <i>Assignments:</i> Formal write-up of §1.18 due 9/27 Evans §§2.10, 2.12, 2.14 in notebook</p>
	<p>Tuesday, Sept. 27 (11 UT) Moon New Wednesday, Sept. 28: (06 UT) Venus 5.4° N of Moon; (18 UT) Spica 2.0° N of Moon Wednesday, Sept. 28 (20 UT) Mercury Superior Conjunction Thursday, Sept. 29 (23 UT) Venus 1.3° S of Saturn Saturday, Oct. 1 (21 UT) Antares 3.9° S of Moon</p>
Sept. 27, 29	<p>Applications of Spherics <i>Prepare:</i> Evans: Chapter §§3.1-3.4; Duncan: Chaps. 8 &amp; 9 Aratus: <i>Phenomena</i> <i>Assignments:</i> Evans: §§3.3-3.4 in notebook Notebook check: notebooks due 10/4</p>
	<p>Tuesday, Oct. 4 (03 UT) Moon Waxing Quarter Tuesday, Oct. 4 (10 UT) Venus 2.9° N of Spica</p>
Oct. 4, 6	<p>Applications of Spherics (cont'd) <i>Prepare:</i> Evans: Chapter §§3.5-3.8; Duncan: Chaps. 10 &amp; 11 Janus astrolabe instructions <i>Assignments:</i> Submit finished sundial 10/13 Evans: §§3.6, 3.8 in notebook</p>

		<i>Wednesday, Oct. 12: (02 UT) Moon Full; (12 UT) Moon at Apogee</i> <i>Thursday, Oct. 13 (16 UT) Jupiter 4.7° S of Moon</i>
Oct. 11, 13	♄	<b>Calendars and Time Reconciling</b> <i>Prepare:</i> Evans: Chapter §§4.1-4.6; Duncan: Chaps. 12 & 13 <i>Assignments:</i> Evans: §§4.2, 4.4 in notebook Culture paper due 10/20
		<i>Thursday, Oct. 20 (03 UT) Moon Waning Quarter</i> <i>Saturday, Oct. 22 (14 UT) Regulus 5.4° N of Moon</i>
Oct. 18, 20	♃	<b>Calendars and Time Reconciling (cont'd)</b> <i>Prepare:</i> Evans: Chapter §§4.7-4.12; Duncan: Chaps. 14 & 15 <i>Assignments:</i> Evans: §§4.6, 4.8, 4.12 in notebook Submit finished astrolabe with your plate 10/25
		<i>Wednesday, Oct. 26: (05 UT) Spica 1.9° N of Moon; (12 UT) Moon at Perigee Saturday; (19 UT) Moon New</i> <i>Friday, Oct. 28 (04 UT) Venus 1.9° N of Moon</i> <i>Saturday, Oct. 29: (01 UT) Jupiter at opposition; (06 UT) Antares 4.0° S of Moon</i>
Oct. 25, 27		<b>Calendars and Time Reconciling (cont'd)</b> <b>MID-TERM EXAM</b> <i>Wednesday, Nov. 2 (16 UT) Moon Waxing Quarter</i>
Nov. 1, 3	♂	<b>Solar Theory</b> <i>Prepare:</i> Evans: Chapter §§5.1-5.6 Ptolemy: Extracts from the <i>Almagest</i> <i>Assignments:</i> Evans: §§5.4, 5.6 in notebook
		<i>Tuesday, Nov. 8 (12 UT) Moon at Apogee</i> <i>Wednesday, Nov. 9 (15 UT) Jupiter 4.8° S of Moon</i> <i>Thursday, Nov. 10: (08 UT) Venus 3.9° N of Antares; (20 UT) Moon Full</i> <i>Friday, Nov. 11 (04 UT) Mars 1.3° N of Regulus</i>
Nov. 8, 10	♁	<b>Solar Theory (cont'd)</b> <i>Prepare:</i> Evans: Chapter §§5.7-5.10 <i>Assignments:</i> Evans: §§5.8, 5.10 in notebook
		<i>Monday Nov. 14 (03 UT) Mercury greatest E elongation (23°)</i> <i>Tuesday Nov. 15 (00 UT) Saturn 4.3° N of Spica</i> <i>Friday, Nov. 18: (15 UT) Moon Waning Quarter; (22 UT) Regulus 5.6° N of Moon</i>
Nov. 15, 17	♂	<b>The Fixed Stars</b> <i>Prepare:</i> Evans: Chapter §§6.1-6.10 <i>Observation:</i> Evans §6.3 in notebook <i>Assignments:</i> Evans: §§6.5, 6.7 in notebook
		<i>Tuesday, Nov. 22 (16 UT) Spica 1.9° N of Moon</i> <i>Wednesday, Nov. 23 (23 UT) Moon at Perigee</i> <i>Thursday, Nov. 24 (06 UT) Mercury Stationary</i> <i>Friday, Nov. 25 (06 UT) Moon New</i>
		----- <b>THANKSGIVING VACATION</b> -----
		<i>Sunday, Nov. 27 (04 UT) Venus 2.7° S of Moon</i> <i>Friday, Dec. 2 (09 UT) Moon Waxing Quarter</i>
Nov. 29, Dec. 1	♁	<b>Planetary Theory</b> <i>Prepare:</i> Evans: Chapter §§7.1-7.14 <i>Observation:</i> Evans §7.3 in notebook <i>Assignments:</i> Evans: §§7.5, 7.8, 7.14 in notebook Calendar paper due 12/6
		<i>Sunday, Nov. 4 ( ) ( UT) Mercury inferior conjunction</i> <i>Tuesday, Dec. 6: (01 UT) Moon at Apogee; (16 UT) Jupiter 4.9° S of Moon; (22 UT) Aldebaran 5.9° S of Moon</i> <i>Sunday, Dec. 10 (14 UT) Moon Full</i>
Dec. 6, 8	♂	<b>Planetary Theory (cont'd)</b> <i>Prepare:</i> Evans: Chapter §§7.15-7.22 <i>Assignments:</i> Evans: §§7.16, 7.18, 7.22 in notebook
Dec. 9, 7:30 pm		<b>FINAL EXAM (Friday)</b> <i>Thursday, Dec. 22 (05 UT) Winter Solstice</i> <i>Tuesday, Jan. 3 (05 UT) Earth at Perihelion</i>