

Note: Course Dates indicate Beginning and Ending Dates

M=Monday, T=Tuesday, W=Wednesday, R=Thursday, F=Friday, S=

CRN	Instructor	Days	Time	Room	D	CRN	Instructor	Days	Time	Room	D
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## Astronomy

### ASTR 115 Planetary Astronomy 3 Units

Strongly recommended: MATH 130. Also, READ 099 if required by reading placement exam or if required by reading level.

The astronomy of the solar system including the history of astronomy, Newton's and Kepler's laws, light, telescopes, the sun, terrestrial and giant planets, satellites, comets, meteors, and the origin of the solar system. 54 lecture hours.

CSU UC

22255	Kary, D.	MW	11:30 AM-12:55 PM	MA 227	08/29-12/19
22256	Kaisler, D.	MW	01:05 PM-02:30 PM	MA 227	08/29-12/19
22253	Kary, D.	TR	08:20 AM-09:45 AM	MA 227	08/29-12/19
22254	Kary, D.	TR	09:55 AM-11:20 AM	MA 227	08/29-12/19
22257	Livio, P.	R	07:00 PM-10:10 PM	MA 227	08/29-12/19
22258	Kary, D.	HRS-ARRG			08/29-12/19

**DISTANCE EDUCATION CLASS** After registering go to [www.citruscollege.edu/de](http://www.citruscollege.edu/de)

### ASTR 116 Stellar Astronomy 4 Units

Strongly recommended: MATH 130. Also, READ 099 if required by reading placement exam or if required by reading level.

The fundamental areas of stellar astronomy including the structure, classification and evolution of stars, galaxies and the universe, instellar matter, and the theories of Newton and Einstein. Laboratory exercises include: energy and forces, light, optics, telescopes, stars and their classification, and galaxies.

54 lecture hours,

54 lab hours. CSU UC

22261	Kaisler, D.	MW	05:25 PM-06:50 PM	MA 227	08/29-12/19
<b>Lecture section only. Lab section also required.</b>					
22263	Kaisler, D.	TR	05:25 PM-06:50 PM	MA 227	08/29-12/19
<b>Lecture section only. Lab section also required.</b>					
22265	Kaisler, D.	M	07:00 PM-10:10 PM	MA 227	08/29-12/19
<b>Lab section only. Lecture section also required.</b>					
22267	Livio, P.	T	07:00 PM-10:10 PM	MA 227	08/29-12/19
<b>Lab section only. Lecture section also required.</b>					
22269	Kaisler, D.	W	07:00 PM-10:10 PM	MA 227	08/29-12/19
<b>Lab section only. Lecture section also required.</b>					
22271	Livio, P.	R	01:00 PM-04:10 PM	MA 227	08/29-12/19
<b>Lab section only. Lecture section also required.</b>					

### ASTR 117 Life In The Universe 3 Units

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The original and evolution of life on Earth, the processes and conditions relevant to life elsewhere in the universe, and the ongoing search for extraterrestrial life.

54 lecture hours. CSU UC

22272	Kaisler, D.	MW	09:55 AM-11:20 AM	MA 227	08/29-12/19
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