

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

21115 Kary, D. MW 09:55 AM-11:20 AM MA 227 08/28-12/18

21116 Kaisler, D. MW 01:05 PM-02:30 PM MA 227 08/28-12/18

21117 Chan, L. R 07:00 PM-10:10 PM MA 227 08/28-12/18

21118 Kary, D. HRS-ARRG 08/28-12/18

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

21119 Kaisler, D. MW 05:25 PM-06:50 PM MA 227 08/28-12/18

Lecture section only. Lab section CRN 21121 or 21123 also required.

21120 Kaisler, D. TR 05:25 PM-06:50 PM MA 227 08/28-12/18

Lecture section only. Lab section CRN 21122 or 21124 also required.

21121 Kaisler, D. M 07:00 PM-10:10 PM MA 227 08/28-12/18

Lab section only. Lecture section CRN 21119 also required.

21122 Chan, L. T 02:00 PM-05:10 PM MA 227 08/28-12/18

Lab section only. Lecture section CRN 21120 also required.

21123 Kaisler, D. W 07:00 PM-10:10 PM MA 227 08/28-12/18

Lab section only. Lecture section CRN 21119 also required.

21124 Chan, L. R 02:00 PM-05:10 PM MA 227 08/28-12/18

Lab section only. Lecture section CRN 21120 also required.

### 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

21125 Kaisler, D. TR 09:55 AM-11:20 AM MA 227 08/28-12/18