

ASTR 210 Life in the Universe (3)
 3 hours lecture
Prerequisite: A minimum grade of 'C' in ASTR 100 or 120
Transfer acceptability: CSU
 A scientific exploration of life in the universe using the findings of astronomy biology, and chemistry. Topics include the development of life and its environments on Earth, the search for life in the cosmos, interstellar communications and travel, and the effects of contact.

ASTR 295 Directed Study in Astronomy (1, 2, 3)
 Arrange 3, 6, or 9 hours laboratory with department chairperson
Prerequisite: A minimum grade of 'C' in ASTR 100 or 120
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.
 Individual study in field, library, or laboratory for interested students.

Athletics and Competitive Sports (ACS)

Contact the Athletics Program for further information.
 (760) 744-1150, ext. 2460
 Office: O-10

Palomar College offers intercollegiate sports for men and women. They include softball, basketball, golf, tennis, soccer, volleyball, swimming and diving, water polo, football, wrestling, cross country, and baseball. Teams will compete in one of four conferences: Mission Conference, Orange Empire Conference, South Coast Conference, and Pacific Coast Conference. Member colleges are located in the Los Angeles, Orange County, Riverside, and San Diego areas. In order to participate in intercollegiate athletics a student must fulfill the following requirements:

1. Obtain a physical clearance by the team physician.
2. Enroll in 12 units. Students are encouraged to register for a minimum of 9 units in courses other than Physical Education activity classes or Athletics and Competitive Sports classes.
3. Successfully complete 24 units prior to a second season of participation. A minimum of 18 units must be completed in courses other than Physical Education activity classes or Athletics and Competitive Sports classes.
4. Maintain a 2.0 or higher grade point average in all course work.
5. Participate in the Palomar College matriculation program which includes English, math and reading skills assessment.
6. Participate in the Palomar College Athletic Academic Advisement Program which includes:
 - a. Establishment of an Individual Education Plan prior to second semester of enrollment.
 - b. Academic assessment of course progress following the 4th, 8th, and 12th week of each semester.
 - c. Fulfilling tutorial or study hall requirements as assigned by the instructor advisor.

INTERCOLLEGIATE ATHLETIC COURSE OFFERINGS

Students enrolled in an Athletic and Competitive Sport are limited to 175 contact hours per year in Kinesiology courses that focus on conditioning or skill development for that respective sport. Specific information about enrollment limitations for Kinesiology classes is available at <http://www.palomar.edu/>

Courses numbered under 100 are not intended for transfer credit.

ACS 50 Introduction to Collegiate Athletics (1)
 1 hour lecture
 Program for matriculation, eligibility rules, exploring and identifying major emphasis of study, academic success skills, educational planning as it relates to transfer as a student athlete.

ACS 55 Cheerleading (1, 2)
 3 or 6 hours laboratory
Prerequisite: Enrollment subject to audition
Note: This is a TBA class and will require travel away from the college on weekends and other dates
 Designed to teach the fundamentals of cheerleading. Explores practical and theoretical aspects of competitive and non-competitive cheerleading. Students will acquire knowledge of, and respect for, the skills needed to perform at college events and competition.

ACS 101 Intercollegiate Softball (2)
 A minimum of 175 hours (laboratory) of student participation is required.
Transfer acceptability: CSU; UC - max credit combined with PE activity courses, 4 units
 Provides women with the opportunity to develop advanced skills and strategies in intercollegiate softball which will be applied to competitive situations.

ACS 110 Intercollegiate Basketball (2)
 A minimum of 175 hours (laboratory) of student participation is required.
Transfer acceptability: CSU; UC - max credit combined with PE activity courses, 4 units
 Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate basketball which will be applied to competitive situations.

ACS 115 Intercollegiate Golf (2)
 A minimum of 175 hours (laboratory) of student participation is required.
Transfer acceptability: CSU; UC - max credit combined with PE activity courses, 4 units
 Provides students with the opportunity to develop advanced skills and strategies in intercollegiate golf which will be applied to competitive situations.

ACS 120 Intercollegiate Tennis (2)
 A minimum of 175 hours (laboratory) of student participation is required.
Transfer acceptability: CSU; UC - max credit combined with PE activity courses, 4 units
 Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate tennis which will be applied to competitive situations.

ACS 125 Intercollegiate Soccer (2)
 A minimum of 175 hours (laboratory) of student participation is required.
Transfer acceptability: CSU; UC - max credit combined with PE activity courses, 4 units
 Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate soccer which will be applied to competitive situations.

ACS 130 Intercollegiate Volleyball (2)
 A minimum of 175 hours (laboratory) of student participation is required.
Transfer acceptability: CSU; UC - max credit combined with PE activity courses, 4 units
 Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate volleyball which will be applied to competitive situations.

ACS 135 Intercollegiate Swimming and Diving (2)
 A minimum of 175 hours (laboratory) of student participation is required.
Transfer acceptability: CSU; UC - max credit combined with PE activity courses, 4 units
 This course provides men and women with the opportunity to develop advanced skills and the strategies in intercollegiate swim/diving which will be applied to competitive situations.

ACS 140 Intercollegiate Water Polo (2)
 A minimum of 175 hours (laboratory) of student participation is required.
Transfer acceptability: CSU; UC - max credit combined with PE activity courses, 4 units
 Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate water polo which will be applied to competitive situations.

ACS 145 Intercollegiate Football (2)

A minimum of 175 hours (laboratory) of student participation is required.

Transfer acceptability: CSU; UC - max credit combined with PE activity courses, 4 units

Provides students with the opportunity to develop advanced skills and strategies in intercollegiate football which will be applied to competitive situations.

ACS 150 Intercollegiate Wrestling (2)

A minimum of 175 hours (laboratory) of student participation is required.

Transfer acceptability: CSU; UC - max credit combined with PE activity courses, 4 units

Provides students with the opportunity to develop advanced skills and strategies in intercollegiate wrestling which will be applied to competitive situations.

ACS 155 Intercollegiate Baseball (2)

A minimum of 175 hours (laboratory) of student participation is required.

Transfer acceptability: CSU; UC - max credit combined with PE activity courses, 4 units

Provides students with the opportunity to develop advanced skills and strategies in intercollegiate baseball which will be applied to competitive situations.

ACS 160 Intercollegiate Cross Country (2)

A minimum of 175 hours (laboratory) of student participation is required.

Transfer acceptability: CSU; UC - max credit combined with PE activity courses, 4 units

Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate cross country which will be applied to competitive situations.

ACS 165 Intercollegiate Track and Field (2)

A minimum of 175 hours (laboratory) of student participation is required.

Transfer acceptability: CSU; UC - max credit combined with PE activity courses, 4 units.

This course provides students with the opportunity to develop advanced skills and the strategies in intercollegiate track and field which will be applied to competitive situations.

ACS 197 Topics in Athletics and Competitive Sports (.5 - 4)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

Transfer acceptability: CSU; UC - max credit combined with PE activity courses, 4 units.

Topics in Athletics and Competitive Sports. See Class Schedule for specific topic offered. Course title will designate subject covered.

Automotive Technology (AT)

Contact the Trade and Industry Department for further information.

(760) 744-1150, ext. 2545

Office: T-102A

Associate in Science Degrees -

AS Degree requirements are listed in Section 6 (green pages).

- Auto Chassis and Drive Lines
- Auto Collision Repair
- Electronic Tune Up and Computer Control Systems
- Mechanics - General

Certificates of Achievement -

Certificate of Achievement requirements are listed in Section 6 (green pages).

- Auto Chassis and Drive Lines
- Auto Collision Repair
- Electronic Tune Up and Computer Control Systems
- Mechanics - General

PROGRAMS OF STUDY**Auto Chassis and Drive Lines**

This program will prepare students for entry level positions in all aspects of the Automotive Industry with an emphasis in drive-line repair.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
AT 105 Automotive Electricity	3
AT 105L Automotive Electricity Computer Training Lab	1
AT 120 Automatic Transmissions and Drive Lines	3
AT 130 Automotive Brakes	3
AT 135 Front End Alignment and Wheel Service	3
AT 160 Associated Studies in Automotives	3
AT 170 Auto Repair Shop Experience	2
AT 220 Advanced Automotive Transmissions	3
IT 108/WELD 108 Technical Mathematics	3
AT 50 or WELD 100 Auto Body Repair I Welding I	3
TOTAL UNITS	27

Auto Collision Repair

This program will prepare students for an entry level position in the automotive collision repair industry.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
AT 50 Auto Body Repair I	3
AT 51 Auto Body Repair II	3
AT 55 Auto Refinishing I	3
AT 56 Auto Refinishing II	3
IT 108 / WELD 108 Technical Mathematics	3

Elective Courses (Select 6 units)

AT 97 Auto Body Repair/Auto Refinishing Topics	.5 - 4
AT 100 Auto Maintenance and Minor Repair	3
AT 105 Automotive Electricity	3
AT 105L Automotive Electricity Computer Training Lab	1
AT 150 Chassis Restoration and Assembly	3
AT 155 Body Restoration and Assembly	3
AT 170 Auto Repair Shop Experience	2
WELD 100 Welding	3
CE 100 Cooperative Education	1 - 4

TOTAL UNITS 21

Electronic Tune Up and Computer Control Systems

This program will prepare students for entry level positions in all aspects of the Automotive Industry with an emphasis in drive-ability concerns.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
AT 105 Automotive Electricity	3
AT 105L Automotive Electricity Computer Training Lab	1
AT 110 Automotive Tune up and Engine Analysis	3
AT 110L Automotive Tune up and Computer Training Lab	1
AT 115 Automotive Fuel Injection and Fuel Systems	3
AT 115L Automotive Fuel Systems Computer Training Lab	1
AT 160 Associated Studies in Automotives	3