

ART 15B Beginning Painting: Imagination and Expression**Units:** 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory**Transferable:** CSU, UC; GAV-GE:C1

This is an introductory painting course. Students will study traditional, contemporary and experimental painting techniques and media. Social, cultural and historical awareness are integrated with classroom explorations of expressive painting. Students develop a variety of painting approaches and a greater understanding of personal expression. This course has the option of a letter grade or pass/no pass. ADVISORY: Art 2A or Art 3A or Portfolio Review

ART 21 Ancient Americas: A History through Art**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU, UC; CSU-GE:C1, IGETC:3A, GAV-GE:C2, F

A critical survey of history through the arts of pre-Columbian natives of North, Central and South America. The course will cover major societies and events from the appearance of major civilizations through the initial colonization efforts of European nations. Due to the distinct history of the Americas, this course uses the arts - architecture, sculpture, ceramics and painting, among others - of ancient societies as a primary source material. This course has the option of a letter grade or pass/no pass. This course is also listed as HIST 21. (C-ID: ARTH 145) ADVISORY: Eligible for English 250.

ART 25A Art Methods**Units:** 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory**Transferable:** CSU; CSU-GE:C1, GAV-GE:C1

Art methods and learning theory for those planning to work with preschool, elementary and secondary school students. Includes art therapy as well as gifted and special learner projects. Two dimensional work in printing, drawing, collage. Also listed as CD 25A.

ART 25B Art Methods**Units:** 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory**Transferable:** CSU; GAV-GE:C1

Art methods, creativity and learning theory for those planning to work with preschool, elementary, and secondary school students. Includes art therapy as well as gifted and special learner projects. Three dimensional work in sculpture, bas relief, mobiles, paper mache', plaster, and various 3-D materials. Also listed as CD 25B.

ART 34A Life Drawing**Units:** 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory**Transferable:** CSU, UC; GAV-GE:C1

Fundamentals of anatomy and representation of the human figure. Drawing from life. This course has the option of a letter grade or pass/no pass. (C-ID: ARTS 200) ADVISORY: Art 3A or review of student's portfolio.

ART 34B Life Drawing**Units:** 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory**Transferable:** CSU, UC; GAV-GE:C1

Further studies of the fundamentals of anatomy and representation of the human figure. Emphasis is placed on personal expression; abstract and experimental processes. This course has the option of a letter grade or pass/no pass. ADVISORY: Art 34A or review of student's portfolio.

ART 79 Portfolio Development for Studio Art Majors**Units:** 1.0 **Hours:** 1.0 Lecture**Transferable:** CSU; GAV-GE:C1

This Portfolio Development course is intended for Studio Art majors. Focus will be placed on the planning and production of personal portfolios and self-promotion materials including cover letters and resumes. Particular emphasis will be placed on self-promotion for jobs, self-employment, or advanced education in the Studio Art field. Students will leave the class with one or more portfolios representing their work. This course has the option of a letter grade or pass/no pass. No college credit for those who have passed DM 79 or CSIS 79.

ART 98 Special Topics**Units:** .5 TO 3.0 **Hours:** .5 TO 3.0 Lecture**Transferable:** CSU; GAV-GE:C1

Special topics courses examine current problems or issues of interest to students within a specific discipline area. For topic content information, consult with the appropriate department chairperson. For transfer status, check with a counselor. This course may have the option of a letter grade or pass/no pass.

ART 190 Occupational Work Experience / Commercial Art**Units:** 1.0 TO 4.0 **Hours:** 5.0 TO 20.0 Laboratory**Transferable:** CSU; GAV-GE:C1

Occupational work experience for students who have a job related to their major. A training plan is developed cooperatively between the employer, college and student. (P/NP grading) 75 hours per semester paid work = 1 unit. 60 hours non-paid (volunteer) work per semester = 1 unit. May be taken for a maximum total of 16 units. Minimum 2.00 GPA. REQUIRED: Declared vocational major.

Athletics: see Kinesiology**ASTRONOMY****ASTR 1 Introduction to General Astronomy****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU, UC; CSU-GE:B1, IGETC:5A, GAV-GE:B1

An introduction to the realm of astronomy and space science. Topics to be covered include the historical development of astronomy, the physics of gravitation and radiation, the solar system, stellar astronomy, galactic and extragalactic astronomy, and cosmology. ADVISORY: Mathematics 205 and eligible for English 250 and English 260.

ATHLETICS**ATH 9A Fundamentals of Soccer****Units:** 2.0 **Hours:** 1.0 Lecture and 3.0 Laboratory**Transferable:** CSU, UC; CSU-GE:E, GAV-GE:E1

This course offers basic instruction in the theory, strategies, and techniques of soccer for the purpose of preparing the individual student in the fundamental aspects of playing and coaching the sport. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. Previously listed as PE 9A and KIN 9A.

ATH 9B Fundamentals of Soccer**Units:** 2.0 **Hours:** 1.0 Lecture and 3.0 Laboratory**Transferable:** CSU, UC; CSU-GE:E, GAV-GE:E1

This course offers review and advanced instruction in the theories, strategies and techniques of soccer for the purpose of preparing the individual student in all aspects of playing and coaching the sport. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. Previously listed as PE 9B and KIN 9B.

ATH 10A Fundamentals of Softball**Units:** 2.0 **Hours:** 1.0 Lecture and 3.0 Laboratory**Transferable:** CSU, UC; CSU-GE:E, GAV-GE:E1

Basic theory, strategies, technique, practice and conditioning of softball to prepare the individual student in all aspects of playing and coaching the sport. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. Previously listed as PE 10A and KIN 10A.

ATH 10B Fundamentals of Softball**Units:** 2.0 **Hours:** 1.0 Lecture and 3.0 Laboratory**Transferable:** CSU, UC; CSU-GE:E, GAV-GE:E1

This course offers review and advanced instruction in the theory, strategies, and techniques of softball for the purposes of preparing the individual student in all aspects of playing and coaching the sport. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. Previously listed as PE 10B and KIN 10B. ADVISORY: PE 10A or KIN 10A or ATH 10A.

ATH 11A Fundamentals of Baseball

Units: 2.0 **Hours:** 1.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

Theory, strategy, technique, practice and conditioning of baseball to prepare the individual student in all aspects of playing and coaching the sport. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. Previously listed as PE 11A and KIN 11A.

ATH 11B Fundamentals of Baseball

Units: 2.0 **Hours:** 1.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This course offers review and advanced instruction in the theory, strategies, and techniques of baseball for the purpose of preparing the individual student in all aspects of playing and coaching the sport. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. Previously listed as PE 11B and KIN 11B. ADVISORY: PE 11A or KIN 11A or ATH 11A.

ATH 12A Fundamentals of Football

Units: 2.0 **Hours:** 1.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

Basic organization and administration of a football program involving equipment, practice schedules, personnel, conditioning, scouting, weight training, and football specific drills. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. Previously listed as PE 12A and KIN 12A.

ATH 12B Fundamentals of Football

Units: 2.0 **Hours:** 1.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

The administration and organization of a football program involving practice schedules, personnel, equipment, scouting, conditioning, weight training, and football drills. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. Previously listed as PE 12B and KIN 12B. ADVISORY: PE 12A or KIN 12A or ATH 12A.

ATH 13A Fundamentals of Volleyball

Units: 2.0 **Hours:** 1.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This course offers basic instruction in the theory, strategies, and techniques of volleyball for the purpose of preparing the student in the fundamental aspects of playing and coaching the game. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. Previously listed as PE 13A and KIN 13A.

ATH 13B Fundamentals of Volleyball

Units: 2.0 **Hours:** 1.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This course offers review and advanced instruction in the theory, strategies, and techniques of volleyball for the purpose of preparing the student in all aspects of playing and coaching the game. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. Previously listed as PE 13B and KIN 13B. ADVISORY: PE 13A or KIN 13A or ATH 13A.

ATH 14A Fundamentals of Basketball

Units: 2.0 **Hours:** 1.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

Basic theory, strategy, technique, practice, and conditioning involved in basketball to prepare the individual student in all aspects of playing and coaching the sport. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. Previously listed as PE 14A and KIN 14A.

ATH 14B Fundamentals of Basketball

Units: 2.0 **Hours:** 1.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

More in-depth and advanced instruction in the theory, strategy, practice and conditioning in basketball to better prepare the individual student in all aspects of playing and coaching the sport. Designed for the student who has already completed ATH 14A. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. Previously listed as PE 14B and KIN 14B. ADVISORY: PE 14B or KIN 14B or ATH 14B.

ATH 21 Volleyball

Units: .5 OR 1.0 **Hours:** 1.5 OR 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This is a sport specific course designed for our student-athletes. Fundamentals, strategy and rules of the game of volleyball are included. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 25 Soccer

Units: .5 OR 1.0 **Hours:** 1.5 OR 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This is a sport specific sport designed for our student-athletes. Fundamentals, strategy and rules of the game of soccer are included. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 27 Basketball

Units: .5 OR 1.0 **Hours:** 1.5 OR 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This is a sport specific course designed for our student-athletes. Fundamentals, strategy and rules of the game of basketball are included. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 35 Intercollegiate Basketball

Units: 2.5 TO 3.0 **Hours:** 7.5 TO 10.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This course provides practice and competition in intercollegiate basketball. Before participating, students must have completed a physical exam and their athletic eligibility paperwork. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 37 Softball

Units: .5 OR 1.0 **Hours:** 1.5 OR 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This is a sport specific course designed for our student-athletes. Instruction is in the fundamentals of softball. Fundamentals, rules, strategy and game play are included. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 38 Intercollegiate Baseball

Units: 2.5 TO 3.0 **Hours:** 7.5 TO 10.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This course provides practice and competition in intercollegiate baseball for men. Before participating, students must have completed a physical exam and their athletic eligibility paperwork. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 42 Intercollegiate Football

Units: 2.5 TO 3.0 **Hours:** 7.5 TO 10.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This course provides practice and competition in intercollegiate football. Before participating, students must have completed a physical exam and their athletic eligibility paperwork. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 45 Intercollegiate Softball

Units: 2.5 TO 3.0 **Hours:** 7.5 TO 10.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This course provides practice and competition in intercollegiate softball for women. Before participating, students must have completed a physical exam and their athletic eligibility paperwork. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 46 Intercollegiate Volleyball

Units: 2.5 TO 3.0 **Hours:** 7.5 TO 10.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This course provides practice and competition in intercollegiate volleyball for women. Before participating, students must have completed a physical exam and their athletic eligibility paperwork. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 47 Intercollegiate Soccer

Units: 2.5 TO 3.0 **Hours:** 7.5 TO 10.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This course provides practice and competition in intercollegiate soccer. Before participating, students must have completed a physical exam and their athletic eligibility paperwork. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 48 Agility and Strength Development

Units: .5 OR 1.0 **Hours:** 1.5 OR 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This conditioning class is designed to improve and increase agility and strength development of the student-athlete through various exercises and exercise programs. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass. Previously listed as PE 46 and KIN 46.

ATH 65 Baseball

Units: .5 OR 1.0 **Hours:** 1.5 OR 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This is a sport specific course designed for our student-athletes. Fundamentals, mechanics, strategy and rules of the game of baseball are included. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 75 Sports Conditioning

Units: .5 OR 1.0 **Hours:** 1.5 OR 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This activity class is designed to improve the physical condition of our male and female student-athletes. It includes strength training, cardiovascular endurance, plyometric training, and sport specific techniques through an open lab format. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass. Previously listed as PE 75 and KIN 75.

ATH 77 Football

Units: .5 OR 1.0 **Hours:** 1.5 OR 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:E, GAV-GE:E1

This is a sport specific course designed for our student-athletes. Instruction is in the fundamentals of football. Includes skills, rules and strategy with emphasis on the application of skills and strategies in game play. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 90 Intercollegiate Sand Volleyball

Units: 2.5 TO 3.0 **Hours:** 7.5 TO 9.8 Laboratory
Transferable: CSU; GAV-GE:E1

This course provides practice and competition in intercollegiate sand volleyball for women. Before participating, students must have completed a physical exam and their athletic eligibility paperwork. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

AVIATION MAINTENANCE TECH**AMT 100 General Aircraft Technology**

Units: 7.5 **Hours:** 7.5 Lecture and 5.0 Laboratory
Transferable: CSU

This course is an FAA Part 147 course designed to prepare the student for their FAA Airframe and Powerplant (A and P) certificate. The course will provide the student with a thorough understanding of the use of basic hand tools and measuring devices; basic physics and math; aircraft materials, processes and hardware, procedures for clean and corrosion control; weight and balance techniques; and human factors. Both theory and practical application to aircraft systems are taught. **COREQUISITE:** AMT 110, Airframe Maintenance Technology. **ADVISORY:** Mathematics 430.

AMT 101 General Aircraft Technology

Units: 7.5 **Hours:** 7.5 Lecture and 5.0 Laboratory
Transferable: CSU

This course is an FAA Part 147 course designed to prepare the student for their FAA Airframe and Powerplant (A and P) certificate. This course will provide the student with a thorough understanding of the use of maintenance publications, maintenance forms and records with emphasis on A and P mechanic privileges and limitations. Basic electricity for aircraft from Ohm's Law through transistor theory will be taught as well as ground operation and servicing of aircraft. Both theory and practical application to aircraft are taught. **COREQUISITE:** AMT 111, Airframe Structures. **ADVISORY:** Mathematics 430.

AMT 110 Airframe Maintenance Technology

Units: 13.5 **Hours:** 9.0 Lecture and 13.5 Laboratory
Transferable: CSU

This course is an FAA Part 147 course designed to prepare the student for their FAA Airframe certificate. The course will provide the student with a thorough understanding of airframe structures; metal structural repair; aircraft welding; aircraft instruments; communications and navigation systems; fuel systems; and cabin environmental systems. Both theory and practical application to aircraft systems is taught. **COREQUISITE:** AMT 100, General Aircraft Technology. **ADVISORY:** Mathematics 430

AMT 111 Airframe Structures

Units: 13.5 **Hours:** 9.0 Lecture and 13.5 Laboratory
Transferable: CSU

This course is an FAA Part 147 course designed to prepare the student for their FAA Airframe certificate. The course will provide the student with a thorough understanding of nonmetallic aircraft structures including wood, fabric, composite structures. Also the study of hydraulic and pneumatic power systems; landing gear systems; electrical systems; and assembly and rigging. Both theory and practical application to aircraft systems is taught. **COREQUISITE:** AMT 101, General Aircraft Technology. **ADVISORY:** Mathematics 430.

AMT 120 Aviation Powerplant Technology

Units: 14.0 **Hours:** 9.0 Lecture and 15.0 Laboratory
Transferable: CSU

This course is part of the curriculum required by the Federal Aviation Administration to obtain certification as an aircraft powerplant maintenance technician. This certificate allows the rated technician to perform maintenance, preventive maintenance repairs and alterations to USA FAA certificated aircraft powerplants. This Section covers the theory and practical application of operation, overhaul practices, inspection, installation, testing and troubleshooting techniques covering the subject areas of reciprocating and turbine engines, ignition, induction, supercharging, cooling and exhaust systems. **ADVISORY:** Successful completion of AMT 101 and AMT 111. Basic hand tools required. Details at the first class meeting.

All courses listed here are part of Gavilan College's approved curriculum. All courses are not offered every semester. Check the Class Schedule for current offerings.