

Course Descriptions

skills and interests.

ART 4991
BFA Project
 3:2:2 F, Sp
 • Prerequisite(s): Senior Status in AVC Major with BFA degree

For AVC majors with senior status and a BFA emphasis. Students will be required to develop and execute a gallery exhibition. The course will require the student to work with a gallery/museum professional in the preparation of the student project for public viewing.

ARTH—ART HISTORY

ARTH 2710 FF
History of Art to the Renaissance
 3:3:0 Su, F, Sp
 Covers major trends in Western art from the Paleolithic period to the Gothic era, including elements of political, religious, cultural, literary, and philosophical elements as they impacted the development of art.

ARTH 2720 FF
History of Art from the Renaissance
 3:3:0 Su, F, Sp
 Covers major trends in Western art, from the Renaissance through the Modern era, including elements of political, religious, cultural, literary, and philosophical elements as they impacted the creation of art.

ARTH 2790
The History of Photography
 3:3:0 Su, F, Sp
 • Prerequisite(s): ARTH 2710 or ARTH 2720
 Traces the different directions photography has taken since its inception, using the social and cultural environment as a context and focus on the ever-increasing use of photography by artists in the creative process from the first uses of the camera obscura to the present. Discusses the specific reasons that set the stage for the "invention" of photography and how photography changed the role of the artists of the 19th- and 20th-centuries. Covers documentary photography and the rise of photography as a separate art form. Also discusses photography's characteristics as an art form and how it has changed our perceptions of the world. Explores how photographs have become a discreet language of signs, symbols, and metaphors with implied narratives in the 20th-century.

ARTH 3010
History of Design and Visual Arts
 3:3:0 F, Sp
 • Prerequisite(s): AVC Sophomore status or departmental approval.
 Presents a history of graphic design, illustration, and photography apart from the study of traditional art history. Explores the impact of major movements, technologies, and innovations on present-day graphic design. Includes lectures, group projects, and field trips.

ARTH 3015
Ancient Art of Egypt and the Near East
 3:3:0 On Sufficient Demand
 • Prerequisite(s): ARTH 2710, ARTH 2720
 Studies the art and architecture of ancient Egypt

and various cultures of the Mesopotamian region. Explores the broader cultural, historical, and religious events and developments of the cultures and periods covered. Includes lectures and class discussions.

ARTH 3020
Classical Art and Architecture History
 3:3:0 Sp
 • Prerequisite(s): (ARTH 2710 or ARTH 2720) or (HUM 2010 and HUM 2020)

For Art and Visual Communications majors and other students interested in art history. Studies the art and architecture of Ancient Greece, Etruria, and Rome. Explores the influences on classical culture as well as the influences of Greco-Roman culture over the centuries. Includes lectures and class discussion about classical art within its broad cultural framework.

ARTH 3030
Medieval Art and Architecture History
 3:3:0 On Sufficient Demand
 • Prerequisite(s): ARTH 2710 and ARTH 2720, ARTH 2800

Studies major styles, cultural influences, and developments in the arts of the middle ages. After an introduction to the aftermath of the fall of Rome and the rise of Christianity, the Romanesque and Gothic periods are investigated in detail. Includes lecture and class discussions

ARTH 3040
Renaissance Art History
 3:3:0 F
 • Prerequisite(s): (ARTH 2710 or ARTH 2720) or (HUM 2010 and HUM 2020)

For AVC majors and other interested students with an interest in art history. Studies art and architecture in Italy between 1250 and 1550, and explores artistic style, patronage, historical influences, and broad cultural influences on art. Includes lectures and class discussion on the major art works and artists in Florence, Rome and Venice.

ARTH 3050
Baroque Art and Architecture History
 3:3:0 On Sufficient Demand
 • Prerequisite(s): (ARTH 2710 or ARTH 2720) or (HUM 2010 and HUM 2020)

For Art and Visual Communications majors and other students with an interest in art history. Studies major art works and artists in Italy, Spain, and France during the 17th Century. Explores the artistic, historical, religious, and broad cultural influences on the art of this period. Includes lectures and class discussions.

ARTH 3060
Nineteenth-Century Art History
 3:3:0 Sp
 • Prerequisite(s): ARTH 2710, ARTH 2720, ARTH 2800

Studies leading artists and movements of the 19th century, emphasizing artistic developments in France between 1780 and 1900. Explores the broad historical, social, cultural, and philosophical changes that took place and influenced the visual arts of the century. Includes lecture and class discussions.

ARTH 3070
Twentieth Century Art and Architectural History
 3:3:0 F, Sp
 • Prerequisite(s): (ARTH 2710 or ARTH 2720) or (HUM 2010 and HUM 2020)

For students interested in art history and the modern era. Studies leading artists, artworks, and movements. Explores the broad cultural, historical, and philosophical influences on modern and contemporary art and architecture. Includes lectures and class discussions on the modern and contemporary art and architecture.

ARTH 3080
History of Architecture
 3:3:0 On Sufficient Demand
 • Prerequisite(s): ARTH 2710, ARTH 2720

Surveys developments in architecture over the centuries, focusing on a variety of periods and leading innovators. Includes the role of technology as well as the broad cultural background in which the architecture was created.

ARTH 309G
Introduction to Non Western Ancient Art
 3:3:0 On Sufficient Demand
 • Prerequisite(s): ARTH 2710, ARTH 2720

Introduces students to the art and architecture of China, Japan, Africa, Oceania, and the Americas. Discusses the religious, cultural, political, and philosophical contexts in which the art and architecture were produced. Requires reading, informal and formal writing, and tests.

ASL—AMERICAN SIGN LANGUAGE

ASL 1000
Introduction to the Deaf-World
 3:3:0 F

Focuses on the nature, make up, and significance of the Deaf-World as a linguistic and cultural minority group. Gives significant attention to the different ways that deaf people form a minority group thereby adding diversity to society at large. Also addresses the diversity within the group and the sociological factors that affect its makeup. Introduces American Sign Language (ASL) and teaches some basic conversational skills. Gives special attention to the differences between the ways hearing and Deaf people construct meanings associated with deaf people. Taught in (or interpreted into) English.

ASL 1010 LH
Beginning American Sign Language I
 5:5:1 Su, F, Sp

Introduces American Sign Language (ASL) to students with no previous experience with ASL. Employs an immersion approach to language learning. Emphasizes basic expressive and receptive conversational skills. Includes introduction to American Deaf culture. Requires weekly lab.

ASL 1020 LH
Beginning American Sign Language II
 5:5:1 Su, F, Sp

• Prerequisite(s): Students should have equivalent knowledge of ASL 1010
 Builds on the experiences in ASL 1010. Emphasizes basic expressive and receptive conversational skills through active student participation. Continues

introduction to American Deaf culture. Employs an immersion approach to language learning. Requires a weekly lab.

ASL 2010 LH
Intermediate American Sign Language I
 5:5:1 Su, F, Sp

• Prerequisite(s): Students should have equivalent knowledge of ASL 1020
 Reviews and builds upon the grammar and conversation skills learned in the first year courses. Concentrates on understanding and acquiring more advanced conversational proficiency in ASL. Emphasizes the use of various kinds of ASL classifiers in the function of describing objects and in providing locative information. Analyzes Deaf culture with an emphasis on the struggles of this linguistic minority with a majority controlled educational establishment with particular attention to the effects on individual Deaf lives.

ASL 2020 HH
Intermediate American Sign Language II
 3:3:0 F, Sp

• Prerequisite(s): Students should have equivalent knowledge of ASL 2010
 Continues applied conversation use of ASL through literature, narratives, poetry, and creative sign play. Analyzes ASL grammatical principles and Deaf cultural experiences to explore and understand various underlying metaphors found in ASL literature. Requires Deaf community exposure and involvement.

ASL 2030
Advanced Fingerspelling
 1:1:0 On Sufficient Demand

• Prerequisite(s): ASL 1020
 Focuses on the patterns of ASL fingerspelling, one of the hardest ASL skills to master. Designed to increase student's ability to accurately produce and comprehend ASL fingerspelling. Also gives attention to the nature and application of fingerspelling within the sociocultural context of the Deaf-World. Taught in ASL.

ASL 2040
ASL Numbers
 1:1:0 On Sufficient Demand

• Prerequisite(s): ASL 1020
 Focuses on the complex rule systems of ASL numbers, one of the hardest to learn elements of ASL. Designed to increase students' ability to accurately produce and comprehend ASL numbers. Taught in ASL.

ASL 2050
Advanced ASL Grammar
 3:3:0 On Sufficient Demand

• Prerequisite(s): ASL 2020 or Instructor Approval
 Explores the grammar of ASL focusing on areas typically difficult for English speakers. Provides extensive instruction and opportunity for students to improve both comprehension and production. Taught in ASL.

ASL 3000
Technology for Deaf Studies
 3:3:0

• Prerequisite(s): ASL 2010 or equivalent
 Examines various forms of media that will help Deaf Studies students succeed in both the pursuit of their academic degrees and in real-world work environments. Draws on the theoretical approaches

of the Visual Culture field to explore visual theory, museums, memorials, film, video, and the emergent Deaf View Image Art (De'VIA). Gives in-depth instruction in the use of multiple digital technologies used in higher-level Deaf Studies classes and in work environments associated with Deaf people.

ASL 3050
Advanced American Sign Language
 3:3:0 On Sufficient Demand

• Prerequisite(s): ASL 2020 or equivalent
 Designed for non-native ASL users who have attained a fairly good mastery of basic ASL. Focuses on grammatical aspects of ASL, including sign formation, sentence forms, pronominalization, identifying subjects and objects, classifiers, pluralization, time concepts, locatives, and inflectional morphology. Includes considerable study of the culture of Deaf people.

ASL 3310
Interpreting I
 3:3:0 On Sufficient Demand

• Prerequisite(s): Any 3000 level ASL course
 Introduces bidirectional (ASL-to-English and English-to-ASL) interpreting between Deaf and hearing people. Studies the profession and skills necessary to be an interpreter. Includes history, models, and professional certification procedures of interpreting; cognitive processes, physical and psychological factors, intercultural communication, ethics, and situational interpreting. Deaf students are encouraged to enroll.

ASL 3320
Physiology of Interpreting
 3:3:0 Su, F, Sp

• Prerequisite(s): ASL 2020
 Introduces students to skills and processes required to maintain health and wellbeing in the physically demanding and high stress field of interpreting. Develops cognitive, ergonomic, and dual tasking abilities required to interpret without stress or physical injury. Helps students better understand how a healthy lifestyle and developing good habits can improve their skills and prevent injury.

ASL 3330
Cross-Cultural Communication and Interpreting
 3:3:0 On Sufficient Demand

• Prerequisite(s): ASL 3310 and Instructor Approval
 Builds on course ASL 3310. Focuses heavily on the practice of interpreting with special emphasis on the dimension of intercultural communication. Requires regular skill-building exercises in both consecutive and simultaneous interpretation, both English-to-ASL and ASL-to-English. Deaf students are encouraged to enroll. Taught in ASL.

ASL 3340
Interpreting II--Advanced Techniques
 3:3:0

• Prerequisite(s): ASL 3310
 Builds on the principles (ASL-to-English and English-to-ASL) for interpreting between Deaf and hearing people taught in Interpreting I. Studies the profession and skills necessary to be an interpreter in more specialized settings such as medical, legal, mental health, and theatre. Includes history, models, and professional certification procedures of interpreting; cognitive processes, physical and psychological factors, intercultural communication,

ethics, and situational interpreting. Deaf students are encouraged to enroll.

ASL 3350
Consecutive Interpreting
 3:3:1 On Sufficient Demand

• Prerequisite(s): ASL 3310 or Instructor Approval
 Introduces students to skills and processes required to produce consecutive interpretations. Focuses on developing basic cognitive, semantic, and dual tasking abilities required to interpret rehearsed and/or spontaneous texts. Also teaches students to incorporate semantic choice, register, and ethical behavioral decisions and understand how they impact their interpretations. Develops sets of technical or field-specific signs and applying these to interpretative work. Includes one-hour per week lab. Taught in ASL.

ASL 3360
Simultaneous Interpreting
 3:3:1 On Sufficient Demand

• Prerequisite(s): ASL 3350 or Instructor Approval
 Introduces students to skills and processes required to produce simultaneous interpretations. Focuses on transitioning students from consecutive interpreting to time-limited simultaneous interpreting. Develops cognitive, semantic, and dual tasking abilities required to interpret spontaneous texts. Teaches and incorporates more advanced semantic choices and negotiation techniques, work with a variety of audience sizes and types. Helps students better understand how ethics impact behavioral decisions and interpretations. Gives more consideration to developing sets of technical or field-specific signs and applying these to interpretative work. Includes one-hour per week lab. Taught in ASL.

ASL 3370
Sign to Voice Interpreting
 3:3:1

• Prerequisite(s): ASL 3350 or Instructor Approval
 Introduces students to skills and processes required to produce conceptually accurate and linguistically appropriate voice interpretations of ASL texts. Develops cognitive, semantic, and dual tasking abilities required to interpret spontaneous texts. Teaches and incorporates more advanced semantic choices and negotiation techniques, work with a variety of audience sizes and types. Helps students better understand how ethics impact behavioral decisions and interpretations. Gives more consideration to developing sets of technical or field-specific signs and applying these to interpretative work. Includes one-hour per week lab.

ASL 3380
Transliteration
 3:3:1

• Prerequisite(s): ASL 3310
 Introduces students to skills and processes required to produce conceptually accurate and linguistically appropriate messages using ASL signs in an English word order. Develops cognitive, semantic, and dual tasking abilities required to interpret spontaneous texts. Teaches and incorporates more advanced semantic choices and negotiation techniques, work with a variety of audience sizes and types. Helps students better understand how ethics impact behavioral decisions and interpretations. Gives more consideration to

Course Descriptions

developing sets of technical or field-specific signs and applying these to interpretative work. Includes one-hour per week lab.

ASL 3390 Professional Issues in Interpreting 3:3:0

• Prerequisite(s): ASL 3310
Provides students advanced study and skills development in the business and profession of interpreting, decision making while interpreting between Deaf (including Deaf-blind) and hearing populations, and negotiation of the complex and growing field of interpreting. Students develop the understanding of the day to day demands of the work needed become truly professional interpreters. Provides extensive individual feedback.

ASL 3510 Deaf Culture to 1817 3:3:0 On Sufficient Demand

• Prerequisite(s): ASL 2020 or equivalent
Explores chronologically to 1817 the formation and treatment of the Deaf community and culture. Completers should acquire an understanding of the ethnic development and linguistic history of the Deaf. Presentations and class instruction conducted entirely in ASL.

ASL 3520 Deaf Culture 1817 to 1970 3:3:0 On Sufficient Demand

• Prerequisite(s): ASL 2020 or equivalent
Explores chronologically from 1817 to 1970 the evolution and treatment of the Deaf community and culture. Completers should acquire an understanding of the ethnic development and linguistic history of the Deaf. Presentations and class instruction conducted entirely in ASL.

ASL 3530 Deaf Culture from 1970 3:3:0 On Sufficient Demand

• Prerequisite(s): ASL 2020 or equivalent
Explores chronologically from 1970 to the present the evolution and treatment of the Deaf community and culture. Completers should acquire an understanding of the ethnic development and linguistic history of the Deaf. Presentations and class instruction conducted entirely in ASL.

ASL 3610 ASL Literature 3:3:0 On Sufficient Demand

• Prerequisite(s): ASL 2020 or equivalent
Explores chronologically representative ASL authors. Emphasizes literary analysis and criticism. Completers should develop knowledge of literary history, acquire skills in interpreting literary texts, and deepen understanding of ASL. Presentations and class instruction conducted entirely in ASL.

ASL 3710 Deaf View Image Art DeVIA 3:3:0

• Prerequisite(s): ASL 3050
Explores the role of visual arts in the Deaf-World with particular attention to Deaf View Image Art (De'VIA) whose subject-matter and style represent a Deaf worldview. Examines the historical contributions of early Deaf artists in the development of De'VIA. Studies various artworks as well as Deaf artists' descriptions of their work, including their

aims, motivations, and challenges. Taught in ASL.

ASL 385G Introductory Understanding of Oppression 3:3:0

• Pre- or Corequisite(s): ASL 3800
Examines oppression in various forms through a comparative study spanning across cultures and communities. Examines the parallels between more widely-understood forms of oppression and that found with the Deaf-World. Taught variously in ASL or English. Open to all students via interpretation.

ASL 4330 Visual Linguistic Analysis for Interpreters 3:3:1

• Prerequisite(s): ASL 3330 and Instructor Approval
Teaches necessary processing skills related to interpreting from Sign to spoken languages including ability to concentrate and analyze visual linguistic and non-manual markers. Analyzes discourse focusing on context, linguistics and culture. Lab required.

ASL 4360 Legal Interpreting 3:3:0

• Prerequisite(s): ASL 3350, ASL 3360, ASL 3370, and ASL 3380
Provides students with a conceptual understanding of the American legal system, and the unique cultural challenges related to interpreting for parties within the system. Examines both the law and Deafness and the areas of language and cultural mediation required to effectively facilitate communication between people who are Deaf and people who are hearing in legal settings.

ASL 4370 Ethics for Interpreters 3:3:0

• Prerequisite(s): ASL 3310
Provides students advanced study and skills development in ethical decision making while interpreting between Deaf (including Deaf-blind) and hearing populations, including interpreting in: Educational, Higher Ed. Legal, Mental Health and Medical situations. Helps students develop the ethical understanding needed to become truly professional interpreters. Provides extensive individual feedback to rapidly improve students' interpreting skills and understanding of the complex nature of interpreting ethics.

ASL 439R Special Topics in Interpreting 3:3:1

• Prerequisite(s): ASL 3360 or Department Approval
Provides students advanced study and skills development in interpreting between deaf (including deaf-blind) and hearing populations. Focuses on different topics as deemed appropriate (e.g., variety of academic, business, or social contexts). Helps students in the Advanced Certification Interpreter Preparation Program (ACIPP) to become bona fide professional interpreters. Provides extensive individual feedback to rapidly improve students' interpreting skills and understanding of the complex nature of the interpreting process. Repeatable up to 9 credits toward graduation.

ASL 4410 ASL Linguistics 3:3:0 On Sufficient Demand

• Prerequisite(s): ASL 3050
Introduces basics of linguistic properties of American Sign Language (ASL). Includes phonology, morphology, syntax, and language in use. Encourages students to think critically about the structure of ASL and the claims researchers make about that structure. Taught entirely in ASL.

ASL 4450 Deaf-World Discourse 3:3:0

• Prerequisite(s): ASL 4410 or LANG 3000 or ANTH 3000
Examines the discourse practices of the Deaf-World. Studies the ways that Deaf people use discursive forms to accomplish specific social aims. Focuses on the connections among linguistic forms and social functions with an emphasis on those forms that Deaf people associate with various identities. Adopts an anthropological bias toward real-world discourse as primary data, and prepares students to do ethnographic fieldwork in the Deaf-World. Taught in ASL.

ASL 4550 Multicultural Issues In the Deaf-World 3:3:0

• Prerequisite(s): ASL 2020
Explores a variety of issues facing various ethnic deaf groups in American society. Considers how these groups express their concerns out of ethnic, racial, class, sexual, or gender experiences that help to define issues of political, economic and social impact. Also discusses how the members of these groups constitute American "eyes/hands", which create communities on various topics, questions, and themes having cultural, historical, and contemporary significance for shaping discourse in the United States.

ASL 4560 Deafness and the Law 3:3:0

• Prerequisite(s): ASL 3050
Provides students with a perspective of the development of the concept of Deafness by exploring the history of Deafness within the context of the American legal system and internationally. Examines both the law and Deafness as social constructs and how the social definition of Deafness shapes laws, policies and judicial decisions which may help or hinder the development of the Deaf community.

ASL 4800 Deaf Culture Studies 3:3:0 On Sufficient Demand

• Prerequisite(s): ASL 3530 or equivalent, or instructor consent.
Explores various aspects of American Deaf culture, including the identity of the Deaf community, causes and implications of deafness, and important contemporary Deaf issues such as the state of Deaf education and fundamental rights of Deaf people. Improves advanced conversational ASL through daily association with native Deaf signers.

ASL 4850
Advanced Understanding of Oppression and Audism
 3:3:0
 • Prerequisite(s): ASL 3810
 Examines the various ways in which hearing people oppress Deaf people. Explores different avenues through which society has built a system of privilege based on an audiocentric center. Also examines how certain members of the Deaf community internalize audist constructions of deafness.

ASL 490R
Special Topics in Deaf Studies
 1 to 3:1 to 3:0 to 10
 • Prerequisite(s): ASL 3050
 Presents selected topics in Deaf Studies. Varies each semester. Topics will reflect the interdisciplinary nature of the Deaf Studies field. Projects and evaluation will vary according to the topic. May be repeated for a maximum of nine credits with different topics.

ASL 495R
Independent Study in Deaf Studies
 1 to 3:1 to 3:0
 • Prerequisite(s): For Deaf Studies students only. Must have approval of both the instructor and the Program Coordinator/Department Chair.
 Provides independent study as directed in reading and individual projects specifically related to the Deaf Studies field at the discretion and approval of the Dean and/or Department Chair. May be repeated for a maximum of six credits toward graduation.

ASTR—ASTRONOMY

ASTR 1040 (Cross-listed with: PHYS 1040) **PP**
Elementary Astronomy
 3:3:0
 Introduces astronomy and cosmology. Explores interesting concepts such as the big bang and black holes. Includes observational exercises including the use of binoculars and telescopes.

ASTR 290R
Independent Study
 1 to 5:0 to 5:0 to 15 **On sufficient demand**
 For students interested in advanced topics in astronomy and cosmology. Students may choose their own course of study under the guidance of an assigned faculty member.

ASTR 3050 (Cross-listed with: PHYS 3050) **Sp**
Astrophysics
 3:3:0
 • Prerequisite(s): PHYS 2220, MATH 1220
 Covers the physics of stars, star clusters, and galaxies. Treats in detail the current methods of astronomical data collection and analysis. Discusses the mathematics of the Theories of Relativity and its implications for the origin and structure of the Universe.

AUT—AUTOMOTIVE TECHNOLOGY

AUT 1000
Survey of Automotive Technology
 2:2:0 **F, Sp**
 An introductory course for those interested in Automotive Technology. Presents basic automotive

repair lessons on ignition and fuel systems, brakes, CV joints, and emissions for state inspections. Discusses electrical accessories, computerized engine controls, and chassis components.

AUT 1110
Brake Systems
 2:2:0 **F, Sp**
 • Corequisite(s): AUT 111L Recommended
 For automotive majors and other interested community members. Covers the principles of automotive braking including hydraulic theory, diagnosis, and service of brake systems. Studies drum, disc, and power units. Includes wheel bearing adjustments, packing, and troubleshooting. Discusses tire construction including both lateral and radial run out and wheel balancing techniques.

AUT 111L
Brake Systems Lab
 1:0:3 **F, Sp**
 • Pre-or Corequisite(s): AUT 1110
 Provides hands on brake systems instruction, including drum, disc, and power units. Includes wheel bearing adjustments, packing, and troubleshooting. Labs include tire construction, both lateral and radial run out and wheel balancing techniques.

AUT 1120
Manual Power Trains
 2:2:0 **F, Sp**
 • Corequisite(s): AUT 112L Recommended
 For automotive majors and other interested community members. Designed to develop skills and knowledge in the area of manual transmission/transaxles and driveline components. Covers the function, construction, operation, inspection, troubleshooting and servicing of front, rear, and four-wheel drive power transmission devices used in passenger cars and light trucks.

AUT 112L
Manual Power Trains Lab
 1:0:3 **F, Sp**
 • Pre-or Corequisite(s): AUT 1220
 Define diagnosis and repair of manual transmissions including transaxles, differentials, drive shafts, and four wheel drive components. Operation of clutches with torque and gear application.

AUT 1130
Engine Repair
 2:2:0 **F, Sp**
 • Corequisite(s): AUT 113L Recommended
 Offers an in-depth study of design, operation, troubleshooting, and service procedures for modern gasoline and diesel engines. Presents procedures for disassembly and reassembly of engine units, service, and technical data.

AUT 113A
Engine Repair
 2:1:3 **F, Sp**
 For automotive majors and other interested community members. Studies construction, operation, and performance of various types of engines. Covers the theory of combustion, and characteristics of fuels, lubrication systems, cooling systems, timing valves, and wear problems with all other parts of the engine. Includes lab experience.

AUT 113B
Engine Repair
 2:1:3 **F, Sp**
 Designed for anyone interested in small-engine repair. Includes hands-on application with shop time. Offers practical information about small engines, theory, operations, and maintenance. Provides information, troubleshooting and service techniques for snowmobiles, 4-wheelers, personal watercraft, mowers, tillers, and other small engine applications.

AUT 113L
Engine Repair Lab
 1:0:3 **F, Sp**
 • Pre-or Corequisite(s): AUT 1130
 Provides a laboratory experience enhanced by following the Engine Repair ASE task list. Emphases demonstrations, observations and hands-on participation. Utilizes actual vehicle systems of major manufactures to supplement training.

AUT 1160
Automotive Electrical Systems
 2:2:0 **F, Sp**
 • Corequisites(s): AUT 116L Recommended
 Studies electrical and electronic fundamentals found and used on current model automobiles and trucks. Topics of study are: electricity, Ohm's Law, magnetism, inductance, capacitance, electronic devices, schematic user's information, test procedures, test equipment, and batteries.

AUT 116L
Automotive Electrical Systems Lab
 1:0:3 **F, Sp**
 • Pre- or Corequisite(s):AUT 1160
 Studies electrical and electronic fundamentals found and used on current model automobiles and trucks. Topics of study are: electricity, Ohm's Law, magnetism, inductance, capacitance, electronic devices, schematic user's information, test procedures, test equipment, and batteries. Lab exercises are correlated with the Automotive Service Excellence (ASE) P1 task list. Lab work will include activities on lab circuitry and live vehicles.

AUT 1170
Engine Electrical Systems
 2:2:0 **F, Sp**
 • Prerequisite(s): AUT 1160
 • Corequisite(s): AUT 117L Recommended
 Studies the function, construction, operation, testing, diagnosis and servicing of automotive ignition systems, starting, charging/generator systems and battery testing using a variety of diagnostic test equipment.

AUT 117L
Engine Electrical Systems Lab
 1:0:3 **F, Sp**
 Studies the function, construction, operation, testing, diagnosis and servicing of automotive ignition systems, cranking, charging systems and battery testing using a variety of diagnostic test equipment. Proper use of diagnostic test equipment in the lab and on vehicle systems will be stressed.

AUT 1210
Suspension and Steering Systems
 2:2:0 **F, Sp**
 • Corequisite(s): AUT 121L Recommended
 Discusses nomenclature, theory of operation, and service procedures for passenger car and light-truck suspensions and computer controlled power