ARH 401 Topics in Art History and Criticism
Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes. Prerequisites: ARH 101 or 102; one other ARH course, varying with topic
3 credits

ARH 403 Topics in Art History and Criticism
Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes. Prerequisites: ARH 101 or 102; one other ARH course, varying with topic
3 credits

ARH 404 Topics in Film Studies and Criticism
Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes. Prerequisites: Two of the following: CCS 101, CCS 201, CCS 301, CLT 335, HIS 361, THR 117
3 credits

ARH 420 History and Methods of Art History
Seminar designed to engage students with the history and methods of art history. Through close readings of key texts and discussions, the course explores issues raised by aesthetics, iconography, formalism, the social history of art, as well as the impact of semiotics, feminism, psychoanalysis, and post-modernism on the discipline of art history. Prerequisites: U3 or U4 standing; ARH 101 and 102
Advisory Prerequisite: One other ARH course
3 credits

ARH 475 Undergraduate Teaching Practicum I
Work with a faculty member as an assistant in one of the faculty member’s regularly scheduled classes. The student is required to attend all the classes, do all the regularly assigned work, and meet with the faculty member at regularly scheduled times to discuss the intellectual and pedagogical matters relating to the course. Prerequisites: Art history/criticism major; preferably U4 standing; sponsorship of an instructor; permission of department
3 credits, S/U grading

ARH 476 Undergraduate Teaching Practicum II
Work with a faculty member as an assistant in one of the faculty member’s regularly scheduled classes. The student is required to attend all the classes, do all the regularly assigned work, and meet with the faculty member at regularly scheduled times to discuss the intellectual and pedagogical matters relating to the course. In ARH 476, students assume greater responsibility in such areas as leading discussions and analyzing results of tests that have already been graded. Students may not serve as teaching assistants in the same course twice. Prerequisites: ARH 475; permission of instructor and director of undergraduate studies
3 credits, S/U grading

ARH 485 Projects in Art History and Criticism in New York City
Independent work, under the supervision of a faculty member, investigating work or works from a particular style or period in New York City. Prerequisites: ARH 101 and 102; two other ARH courses; permission of sponsor and department
3-6 credits

ARH 487 Independent Reading and Research in Art
May be repeated up to a maximum of 12 credits. Prerequisite: At least four courses in art; sponsorship of a faculty member; permission of department
0-6 credits

ARH 488 Internship
Participation in the work of galleries, museums, arts agencies, and art historical societies. Students are required to submit written progress reports and a final report of their experiences to the faculty coordinator and the department. May be repeated up to a limit of 12 credits, but no more than six credits may count toward the major in art history/criticism and no more than three credits may count toward the major in studio art. Prerequisite: Fifteen credits in the Art Department, of which at least six shall be in art history/criticism; upper-division standing with preference given to U4 students; permission of instructor and department
0-6 credits, S/U grading

ARH 495 Senior Honors Project in Art History and Criticism
A one-semester project for art history and criticism majors who are candidates for the degree with departmental honors. Prerequisites: Permission of instructor and department
3 credits

ARS Art, Studio

ARS 154-D Foundations of Drawing
Fundamentals of drawing using various drawing media and types of paper. Perspective, foreshortening, proportion, anatomy, and basic concepts of drawing are studied. The figure, still life, and landscape are explored as subject matter, and color theory is introduced. Prerequisite: U3 or U4 standing
3 credits

ARS 201-D Photography for Non-Majors
An introductory non-darkroom course on the fundamentals of camera techniques, photographic history, and terminology as well as the visual language of still and moving imagery. Students must own a 35mm camera with manual capability. Books, photographic materials, and field trip expenses are estimated to cost $200. Prerequisite: ARH 154
3 credits

ARS 205 Foundations: Idea and Form
An introduction to the basic building blocks for artistic practice and aesthetic analysis. Projects are organized around disciplines such as line, plane, volume, color, composition, typography, pattern, scale, narrative, performance, light, sound, and monument. These projects, as well as readings, presentations, and discussions, examine the importance of a changing cultural, environmental, and social context and its impact on meaning and perception in art and visual culture. Prerequisite: ARH 154
3 credits

ARS 208 Technology in the Arts
A multidisciplinary, hands-on introduction to the concepts and techniques of computer-influenced art, combining art, music, and theatre. Students explore computer creation and manipulation of sounds and images, as well as various ways of combining them. Current creative work using these techniques is studied. Additional hours in Laboratory for Technology in the Arts or Fine Arts SINC site required. This course is offered as MUS 208, ARS 208, and THR 208. Prerequisite: One 200-level ARS, MUS or THR course
3 credits

ARS 225 Introductory Electronic Media
A survey and hands-on introduction to electronic media. Students are introduced to the practical, conceptual, and historical uses of computers and related imaging tools in the visual arts through lecture, labs, readings, and project critiques. This course serves as preparation for further study in electronic media and as an opportunity for students in the arts to gain basic computer literacy. Students will develop strategies for combining images and text. Students will then distribute these works on the web. Emphasis is on the conceptual and artistic potential of the technology. No prior computer experience is required. Prerequisite: ARS 154
3 credits

ARS 230 Foundations of Two-Dimensional Design
Introduction to basic design principles and their application on the two-dimensional surface, with investigation into different functions and properties of the formal elements of line, value, texture, shape, space and their organizational use of basic relational elements (repetition, scale, rhythm). Abstract problems stress graphic and systematic approaches to visual problem solving. Primary media are pencil, charcoal, ink, tempera, and cut paper in black and white. Prerequisite: ARS 154
3 credits

ARS 255 Introductory Painting
Introductory painting in oils or acrylics. The various media, tools, and techniques of painting and of preparing surfaces for painting are explored. Continues the work of ARS 154 in the traditional areas of landscape, still life, and figure, as well as in perspective, foreshortening, proportion, anatomy, and color theory. One or two field trips to New York City museums and galleries may be required. Prerequisite: ARS 154
3 credits

ARS 256 Fundamentals of Sculpture
An introduction to sculpture, using a variety of materials and techniques. Specific, sequentially organized projects in carving, construction, modeling, and casting are designed to develop technical skills in conjunction with conceptual information. Prerequisite: ARS 154
3 credits

ARS 264 Ceramics
Investigation of ceramic ware and ceramic sculpture utilizing a wide variety of approaches in earthenware and stoneware clay bodies. The course offers a technical and conceptual foundation for clay construction, low- and high-fire glazing, and multiple finishing techniques using gas and electric firing processes. Prerequisite: ARS 154
3 credits

ARS 274 Beginning Printmaking
An introduction to printmaking. Demonstrations and lectures treat printmaking techniques and print shop procedures. Students are introduced to intaglio (etching, drypoint, engraving), relief (wood block, line block) monoprinting, and if time permits, lithography. Prerequisite: ARS 154
3 credits

ARS 281 Photography I
An intensive course with extensive practice and experimentation in the aesthetics, techniques, and materials of black-and-white photography. It is expected that the student’s academic program or vocational objectives require a legitimate need for photographic training, and the course is structured accordingly. Students must provide their own 35mm camera equipped with a single focal length normal lens (no zoom lens) and the ability for full manual operation. They must expect to spend approximately $450 during the semester on materials. Prerequisite: ARS 154
3 credits

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ARS 299 Studio Management Workshop
Development of practical skills needed to manage and maintain a studio lab or shop in the art department. Students work under the supervision of a faculty member in an area of interest, such as photography, printmaking, electronic media, or sculpture. May be repeated twice. Prerequisite: Permission of instructor 1 credit

ARS 317 Interactive Performance, Media, and MIDI
Practical and theoretical issues related to interactive performance, combining elements of art, music, theater, performance art, video, and computer science. Course topics include sound synthesis, sampling, video, lighting, alternative input, and MIDI. This hands-on course stresses small experimental-creative laboratory assignments and culminates in final small-group or individual projects. Additional hours in Laboratory for Technology and the Arts. This course is offered as ARS 317, MUS 317 and THR 317. Prerequisite: 200- or 300-level ARS, MUS, or THR studio or performance course 3 credits

ARS 318 Music and the Moving Image
An investigation of the relationship between music and film and video. Students script, shoot, edit, and create short videos with soundtracks, exploring different aspects of visuals and music. All editing is done digitally. Works may be made for screen, installation, or performance. Also examines historical and contemporary artistic exploration with such media. Meets in the Laboratory for Technology and the Arts. This course is offered as ARS 318, MUS 318, and THR 318. Prerequisites: One ARS, MUS, or THR course; familiarity with the use of computers. Advisory Prerequisite: ARS/MUS/THR 208 or ARS/MUS/THR 317 or ARS 225 3 credits

ARS 325 Theory and Practice of Electronic Media: Print
An examination of the theories and techniques of computer and electronic media through lecture, labs, readings and project critiques. Digital imaging techniques are combined with layout programs to create image centered works, such as artist’s books, individual prints, multiples and installations. Hybrid combinations of digital and traditional photography and print-making techniques are explored. Prerequisite: ARS/MUS/THR 208 3 credits

ARS 326 Theory and Practice of Electronic Media: Video and Animation
An introduction to the practice, theory, and history of video and animation within art and independent media through labs, lecture, readings, and project critiques. Video production, editing and animation will be explored. Animation production will cover computer based stop-motion as well as 2D and 3D computer animation. Emphasis is on creative content, experimentation and critical thinking. Students will work with computer based editing and 2D and 3D animation tools to create several short assignments and two significant projects using one or more techniques. Prerequisite: ARS/MUS/THR 208 or AAS 225 3 credits

ARS 327-H Theory and Practice of Electronic Media: Web Art and Design
An investigation of the practical, historical, and theoretical issues related to art and design on the internet. Students work with images, text, sound, and animation on the web to create web-based artworks, design a portfolio or other information-based site, and write a hypertext research paper. Emphasis is on creative use of web technologies and examining the cultural implications of new technologies. Students will work on Macintoshes in the EMEDIA SINC site. Prerequisite: ARS/MUS/THR 208 or AAS 225 3 credits

ARS 330 Foundations of Three-Dimensional Design
An introduction to the basics of three-dimensional design concepts and processes. Through studio problems students become familiar with fundamental three-dimensional design concepts, vocabulary, materials and skills applicable to continued study in a variety of visual and applied disciplines. Prerequisite: ARS 220 3 credits

ARS 350 Life Drawing and Painting
Drawing and painting of the human figure. May be repeated twice. Prerequisite: ARS 255 3 credits

ARS 351 Painting I: Theory and Practice
Painting and drawing studio; practice and theory stressing exploration of media and crafts, historical styles, and individual development. Prerequisite: ARH 102 and ARS 255 3 credits

ARS 352 Painting II: Theory and Practice
A continuation of ARS 351, stressing the individual development of the student as a maturing artist through critiques of the student’s work and discussion of contemporary and historical issues in art. Prerequisite: ARS 351 3 credits

ARS 359 Theory and Practice of Conceptual Drawing
The further study of different processes and methods of generating drawings, encouraging individual expression. Slide presentations, assigned readings, and gallery visits are part of the student’s experience. Prerequisite: ARH 102 and ARS 255 3 credits

ARS 364 Advanced Theory and Practice of Ceramics
An advanced course in ceramics stressing sophisticat-ed sculptural forms and techniques in earthenware, stoneware, porcelain, and raku clay bodies. Class work is based on individual projects stressing expression of ideas and image making. Additional techniques of mold making, slip casting, and raku firing enlarge the repertoire of construction and surface finishes. Prerequisites: ARS 284 and ARH 102 3 credits

ARS 365 Theory and Practice of Sculpture: Wood, Metal, and Mixed Media
Theory, technique and formal principles of wood sculpture, including carving and constructions; metal sculpture, including welding, forming, and finishing; and related concepts and techniques in mixed-media sculpture. Prerequisites: ARS 256 and ARH 102 3 credits

ARS 366 Theory and Practice of Sculpture: Modeling, Casting, and Carving
Theory, practice, techniques, and formal principles of clay modeling, plaster casting, carving, and related techniques. Prerequisites: ARS 256 and ARH 102 3 credits

ARS 374 Theory and Practice of Printmaking: Intaglio Processes
Further development of the craft of black-and-white intaglio printing, utilizing various methods including dry point, engraving, etching, soft ground, and aquatint, with an emphasis on the history of printmaking. Prerequisite: ARS 274 3 credits

ARS 375 Theory and Practice of Printmaking: Lithography
Demonstrations and hands-on work in the basic techniques of direct lithographic printing from limestone, primarily in black and white, with an emphasis on the history of printmaking. Prerequisite: ARS 154 Advisory prerequisite: ARS 274 3 credits

ARS 381 Photography II
An advanced course in the theory and practice of black-and-white photography utilizing 35mm or larger cameras, lenses, materials, and varied processes. Further exploration of photography as a means of personal visual expression along with a continued intensive examination and application of materials and refined techniques. Students must provide their own cameras and materials. Prerequisite: ARS 281 3 credits

ARS 390-G Topics in Studio Art
Semester supplements to this Bulletin contain specific descriptions when course is offered. Past topics have included titles such as Web Art and Design, Public Art, and 2-D and 3-D Animation. Semester supplements to this Bulletin contain specific descriptions when course is offered. May be repeated for credit as the topic changes. Designed for upper-division students; this course provides an in-depth study of a specific topic within humanities disciplines such as music, art, literature, religion, and philosophy. Students will be expected to demonstrate knowledge of the conventions and methods used in the humanities discipline(s) studied. May be repeated for credit as the topic changes. Not for major credit. Prerequisite: ARS 154 3 credits

ARS 425 Advanced Electronic Media
An advanced investigation of the history, contemporary practice, and techniques of digital/electronic media arts through lecture, labs, readings, project critiques, and exhibition. Student directed projects may involve advanced media techniques, such as imaging, video, sound, 2D/3D animation, performance, and interactivity that take form as prints, movies on dvd, sculptures/installations, and websites. May be repeated once. Prerequisite: ARS/MUS/THR 208 or ARS 225; permission of instructor after interview and review of portfolio 3 credits

ARS 452 Advanced Theory and Practice of Painting
Examination of ideas and techniques of painting through studio, lecture, critique, exhibition, and painting assignments. May be repeated once. Prerequisite: ARS 351 and 352, ARH 342 3 credits

ARS 465 Advanced Theory and Practice of Sculpture: Welding, Construction, and Related Techniques
An advanced course in the theory, techniques, and formal principles of wood sculpture, including carving and constructions; metal sculpture, including welding, forming, and finishing; and related concepts and techniques in mixed-media sculpture. May be repeated once. Prerequisites: ARS 365 and ARH 342 3 credits

ARS 466 Advanced Theory and Practice of Sculpture: Modeling, Carving, and Casting
A course in advanced sculpture utilizing clay and wax modeling. Representational sculptures, including work from a nude model, and more abstract works are developed. Advanced reproduction techniques (including plaster and flexible rubber molds) are
used with subsequent castings in a variety of media such as plaster, polyester resin, and metal. May be repeated once.

Prerequisites: ARS 366 and ARH 342
3 credits

ARS 471 Advanced Theory and Practice of Printmaking: Intaglio Processes
Continued development of intaglio techniques, emphasizing a variety of multi-plate and single-plate color printing processes, and tailored to the individual requirements of advanced students. May be repeated once.

Prerequisite: ARS 374
3 credits

ARS 472 Advanced Theory and Practice of Printmaking: Lithography
Continued development of lithographic techniques, emphasizing methods of stone and plate lithography and leading to the production of printed single- and multi-colored editions. May be repeated once.

Prerequisite: ARS 375
3 credits

ARS 475 Undergraduate Teaching Practicum I
Work with a faculty member as an assistant in one of the faculty member’s regularly scheduled classes. The student is required to attend all the classes, do all the regularly assigned work, and meet with the faculty member at regularly scheduled times to discuss the intellectual and pedagogical matters relating to the course.

Prerequisites: Studio art major; preferably U4 standing; sponsorship of an instructor; permission of department 3 credits, S/U grading

ARS 476 Undergraduate Teaching Practicum II
Work with a faculty member as an assistant in one of the faculty member’s regularly scheduled classes. The student is required to attend all the classes, do all the regularly assigned work, and meet with the faculty member at regularly scheduled times to discuss the intellectual and pedagogical matters relating to the course. Students assume greater responsibility in such areas as assisting in demonstrations and crises, only under direct supervision of the instructor. The course in which the student is permitted to work as a teaching assistant must be different from the course in which he or she previously served.

Prerequisite: ARS 475; permission of department 3 credits, S/U grading

ARS 481 Photography III
Black-and-white photography stressing the theory and practice of 35 mm and medium-format equipment as an artistic tool for individual expression and communication. Emphasis is on the production of prints of outstanding quality and presentation through varied assignments (landscapes, abstracts, portraits, etc.) and equipment. Students must supply their own 35 mm camera equipment. Estimated cost of supplies is $300.

Prerequisites: ARS 381; permission of instructor after interview and review of portfolio 3 credits

ARS 482 Photography IV
Black-and-white photography stressing the theory and practice of communicative skills and presentation aimed at enabling serious photographic students to follow and develop their personal photographic and subject interests. Students work on several photographic essays throughout the semester. Students must provide their own 35mm equipment. Estimated cost of supplies is $300.

Prerequisites: ARS 381; permission of instructor after interview and review of portfolio 3 credits

ARS 487 Advanced Directed Projects in Studio Theory and Practice
Advanced independent projects for outstanding students under the supervision of a faculty member. May be repeated once for a maximum of six credits.

Prerequisites: Advanced status in one of the studio areas; sponsorship of a faculty member; permission of department 0-6 credits

ARS 488 Internship
Prerequisites: U3 or U4 standing; 15 credits in art department courses; permission of department 0-6 credits, S/U grading

ARS 491, 492 Special Topics in Studio Theory and Practice
Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.

Prerequisite: Permission of department 3 credits

ARS 495 Senior Honors Project in Studio Art
A one-semester project for studio art majors who are candidates for the degree with departmental honors.

Prerequisites: Permission of instructor and department 3 credits

AST 100 Astronomy Today
Seminar designed to introduce students to the excitement of modern astronomy, focusing on the most recent discoveries, as reported in the media. The course provides sufficient scientific background to enable students to understand the impact of these discoveries.

1 credit

AST 101-E Introduction to Astronomy
Description of planets, stars, galaxies, black holes, pulsars, quasars, supernovae, and white dwarfs. Mau’s place in the cosmos. Cosmological and cosmogonical theories. Two hours of lecture and one hour of recitation per week. Students with better science preparation are encouraged to take AST 203. Not for major credit. Not for credit in addition to AST 203

Prerequisite: Satisfaction of entry skill in mathematics requirement (Skill 1) or satisfactory completion of D.E.C. C 3 credits

AST 105-E Introduction to the Solar System
A general survey of present knowledge of the planets, satellites, interplanetary medium, comets, asteroids, and outer regions of the sun. Begins with a historical introduction and discussion of the methods of science. Emphasizes current NASA deep-space exploration missions and other modern astronomical methods. Not for major credit. Not for credit in addition to AST 205

Prerequisite: Permission of department 3 credits

AST 112 Astronomy Laboratory
An introduction to observational activities in astronomy. Students make astronomical measurements using simple instruments such as a quadrant, cross-staff, spectrometer, and telescope; analyze measurements; examine how quantities of interest and their errors are derived from the measurements and how they are properly reported. Not for major credit.

Pre- or Corequisite: AST 101 or 105 or 248 1 credit

AST 200 Current Astronomical Research at Stony Brook
Seminar designed to introduce students to astronomical research currently underway at Stony Brook. Faculty actively engaged in cutting edge research using facilities such as the Hubble space telescope, the CHANDRA X-Ray Observatory, and the Keck and Gemini telescopes, give presentations on their own research. Appropriate for students considering undergraduate research in astronomy as well as students interested in current astronomy.

1 credit

AST 203-E Astronomy
A survey of the physical nature of the universe for the student with some background in physics and mathematics. May not be taken for credit in addition to AST 101. An optional observing session is held one evening per week.

Prerequisite: PHY 125 or 131/133 or 141 3 credits

AST 205 Introduction to Planetary Sciences
An introduction to the solar system for the student with a background in mathematics or physical sciences. A survey of the planets, comets, asteroids, and interplanetary medium, based upon the latest scientific discoveries. Not for credit in addition to AST 105.

Prerequisite: PHY 125 or 131/133 or 141 3 credits

AST 248-H The Search for Life in the Universe
A study of the role of science in modern society through investigation of the question: Does life exist elsewhere in the universe? Topics include a review of the astronomical and biological settings; the origin of life on the earth and possibly elsewhere; the evolution of life and the development of intelligence and technology. Also discussed are the ramifications of the development of life and intelligence for the atmosphere and the biosphere.

Prerequisite: One D.E.C. category E course 3 credits

AST 277 Computation for Physics and Astronomy
An introduction to computing on UNIX/Linux computers. Fundamentals of using UNIX/Linux to write computer programs for numerical algorithms to solve computational physics and astronomy problems. Assignments are carried out in a high-level compiler language such as Fortran or C++ and require extensive use of SINC site computers outside the classroom. This course is offered as both AST 277 and PHY 277.

3 credits

AST 287 Introductory Research in Astronomy
Independent research under the supervision of a faculty member, at a level appropriate for lower-division students. May be repeated.

Prerequisites: Permission of instructor and departmental research coordinator

Advisory Prerequisites: U1 or U2 standing; one AST course 0-2 credits

AST 301-H Collisions in the Solar System
A discussion of the evidence that comet and asteroid impacts have played a significant part in the evolution of the Earth, and other planets of the solar system, as well as an assessment of the actual and perceived hazard posed by terrestrial impacts and discussion of what can be done about it. The course follows an interdisciplinary approach and is not for major credit.

Prerequisites: A lower-division 3-4 credit AST course; MAT 125 or 121 or 141 or AMS 151; PHY 121/123 or 125 or 131/133 or 141 3 credits

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