AET - Arts and Entertainment Technologies

Arts and Entertainment Technologies: AET

Lower-Division Courses

AET 304. Foundations of Arts and Entertainment Technologies.
Explore the industries, practices, and concepts defining arts and entertainment technologies in the twenty-first century. The equivalent of three lecture hours a week for one semester.

AET 310. Foundations of Creative Coding.
Explore applied computational thinking and logical processes for solving creative problems with technical solutions using the graphics language Processing. Three lecture hours a week for one semester, with studio hours as required.

AET 110T, 310T. Topics in Innovative Design.
Exploration of innovative topics in design. For each semester hour of credit earned, one lecture hour a week for one semester. May be repeated for credit when the topics vary. Offered on the letter-grade basis only. Prerequisite: Varies with the topic.

AET 119, 219, 319. Topics in Arts and Entertainment Technologies.
For each semester hour of credit earned, the equivalent of one lecture hour per week for one semester. May be repeated for credit when the topics vary. Prerequisite: Varies with the topic.

This course is used to record credit the student earns while enrolled at another institution in a program administered by the University's Study Abroad Office. Credit is recorded as assigned by the study abroad adviser in the School of Design and Creative Technologies. University credit is awarded for work in an exchange program; it may be counted as coursework taken in residence. Transfer credit is awarded for work in an affiliated studies program. May be repeated for credit when the topics vary.

Upper-Division Courses

AET 320D. Musical Acoustics.
Restricted to Arts and Entertainment Technologies majors. Explores the science of sound and how musical instruments work as well as principles of musical scales, hearing, architectural acoustics, and electronic music. Three lecture hours per week for one semester. Only one of the following may be counted: Arts and Entertainment Technologies 320D, 339 (Topic: Musical Acoustics), Mechanical Engineering 379M (Topic: Musical Acoustics), 379Q, Music 376J (Topic: Musical Acoustics), 379Q. Offered on the letter-grade basis only.

AET 320F. Immersive Audio.
Restricted to Arts and Entertainment Technologies majors. Explore 3D and multi-channel sound with applications in games and live audio mixing. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 320E.

AET 320G. Audio Coding I.
Restricted to Arts and Entertainment Technologies majors. Explore programming methods for MIDI and audio signal processing in the visual interface language Max/MSP. Examine how to manage audio signal flow and communications with external devices such as keyboard controllers, pedals and other sensors. Discuss the creation of systems for musical interactivity in live performance and immersive sound installation applications and integration with Ableton Live. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 305 and 320D.

AET 320J. Music Information Retrieval.
Restricted to Arts and Entertainment Technologies majors. Examination of the primary technologies used to retrieve perceptually-based music/sound information for audio signal identification and their applications in copyright protection. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 305 and 320J.

AET 320L. Generative Music.
Restricted to Arts and Entertainment Technologies majors. Explores algorithmic music systems including procedural techniques, genetic algorithms and cellular automata. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 320L.

AET 320M. Live Music Coding.
Restricted to Arts and Entertainment Technologies majors. An exploration of techniques for live, real-time music programming and sound production in performance settings. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 320M.

AET 321C. Audio Processing.
Restricted to Arts and Entertainment Technologies majors. Explores the use of sound-shaping tools, convolution reverb, noise reduction, pitch and time editing to make precise corrections to audio files. Three lecture hours a week for one semester, with lab hours as required. Arts and Entertainment Technologies 321C and 339 (Topic: Audio Processing) may not both be counted. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 305.

AET 321F. Film Sound Design.
Restricted to Arts and Entertainment Technologies majors. Explore post-production concepts for preparing sound in relation to picture including sound effects, foley, voiceovers and sonic environments. Three lecture hours a week for one semester, with lab hours as required. Arts and Entertainment Technologies 321F and 339 (Topic: Audio for Visual Media) may not both be counted. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 305.

AET 322G. Audio Coding II.
Restricted to Arts and Entertainment Technologies majors. Advanced algorithmic programming in audio software with an emphasis on real-time systems. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 322G.

AET 323C. Screen Scoring.
Restricted to Arts and Entertainment Technologies majors. Create original music tracks for screen-based media and games. Three lecture hours per week for one semester. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 341C and 341D.
AET 323D. Interactive Music.
Restricted to Arts and Entertainment Technologies majors. Create real-time interactive music using Ableton Live and Musical Instrument Digital Interface (MIDI) controllers. Three lecture hours per week for one semester, with lab hours as required. Arts and Entertainment Technologies 323D and 339 (Topic: Interactive Music) may not both be counted. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 341C and 341D.

AET 324C. Introduction to Drawing.
Restricted to Arts and Entertainment Technologies majors. An introduction to the foundations of traditional and digital drawing. Three lecture hours per week for one semester, with lab hours as required. Arts and Entertainment Technologies 319 (Topic: Intro to Drawing) and 324C may not both be counted. Offered on the letter-grade basis only.

AET 324D. Principles of Animation.
Restricted to Arts and Entertainment Technologies majors. An introduction to the principles of animation for 2D and 3D systems. Use various techniques to convey a sense of weight, emotion, and story for simple and complex objects in both 2D and 3D. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 306.

AET 324F. Videography.
Restricted to Arts and Entertainment Technologies majors. An introduction to mobile and smart device video capture, storytelling, and editing. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 306.

AET 324G. Visual Coding.
Restricted to Arts and Entertainment Technologies majors. An introduction to advanced visual coding for performance and production. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 306.

AET 324J. Visual Storytelling.
Restricted to Arts and Entertainment Technologies majors. An introduction to digital visual storytelling. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 324C.

AET 124P, 224P, 324P. Advanced Production Laboratory.
Same as Theatre and Dance 124P. Same as Theatre and Dance 224P. Same as Theatre and Dance 324P. Restricted to theatre and dance and arts and entertainment technologies majors. For each semester hour of credit earned, one lecture hour per week for one semester, with additional laboratory hours to be arranged. Theatre and Dance 124P 224P 324P and Arts and Entertainment Technologies 124P 224P 324P may not both be counted. May be repeated for credit. Prerequisite: For Theatre and Dance majors, Theatre and Dance 314P or consent of instructor; For Arts and Entertainment Technologies majors, Arts and Entertainment Technologies 316C.

AET 325C. Introduction to 2D Animation.
Restricted to Arts and Entertainment Technologies majors. An introduction to 2D animation, visualization, production techniques, and practice. Three lecture hours a week for one semester, with lab hours as required. Arts and Entertainment Technologies 325 and 325C may not both be counted. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 306.

AET 325E. Motion Graphics.
Restricted to Arts and Entertainment Technologies majors. An introduction to motion graphics, compositing, and visual effects for games and previsualization. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 325C, and 326 or 326C.

AET 326E. 3D Animation and Rigging.
Restricted to Arts and Entertainment Technologies majors. An introduction to 3D animation techniques and rigging systems. Three lecture hours a week for one semester, with lab hours as required. Only one of the following may be counted: Arts and Entertainment Technologies 326E, 328 and 339 (Topic: Animation and Rigging). Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 326 or 326C.

AET 326F. Digital Sculpting.
Restricted to Arts and Entertainment Technologies majors. Principles of 3D digital sculpting for games and visualization. Three lecture hours a week for one semester, with lab hours as required. May be repeated for credit. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 306.

AET 326G. Realtime VFX.
Restricted to Arts and Entertainment Technologies majors. An introduction to creating visual effects for games and realtime engines. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 306.

AET 326J. Realtime Animation Techniques.
Restricted to Arts and Entertainment Technologies majors. An introduction to animation principles and techniques for creating games and realtime-ready animated systems. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 306.

AET 327C. Advanced Motion Graphics.
Restricted to Arts and Entertainment Technologies majors. Extended exploration into motion graphics, compositing, and visual effects of games and previsualization. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 325C, 325E, and 326 or 326C.

AET 327D. Advanced Imaging and Visualization.
Restricted to Arts and Entertainment Technologies majors. Extended exploration into advanced graphic art software and production techniques. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 325C and 326 or 326C.

AET 329J. Digital Fabrication.
Restricted to Arts and Entertainment Technologies majors. Explores common and emerging digital fabrication technologies for artists and designers. Three lecture hours a week for one semester, with lab hours as required. Arts and Entertainment Technologies 329J and 339 (Topic: Digital Fabrication) may not both be counted. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 316C.

This course is used to record credit the student earns while enrolled at another institution in a program administered by the University’s
AET 130T, 330T. Topics in Innovative Design.
Exploration of innovative topics in design. For each semester hour of credit earned, one lecture hour a week for one semester. May be repeated for credit when the topics vary. Offered on the letter-grade basis only. Prerequisite: Varies with the topic.

AET 133, 333. Topics in Video Game Development.
Restricted to arts and entertainment technologies majors. Topics in video game development. For each semester hour of credit earned, one lecture hour a week for one semester. May be repeated for credit when the topics vary. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 310. Additional prerequisites vary with the topic.

AET 333D. Video Game Production.
Restricted to Arts and Entertainment Technologies majors. Explores the creation and execution of plans and roadmaps to strategize how game development is executed, organized, scheduled, budgeted, and managed. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 334E, 334F, and 334C or 334K.

AET 334. Video Game Character Animation.
Restricted to arts and entertainment technologies majors. Examine the process of creating 3D gameplay animations, techniques to improve animation workflow, and how to implement animations into the Unreal Engine. For each semester hour of credit earned, one lecture hour a week for one semester. May be repeated for credit. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 334E, 334F, and 334C or 334K.

AET 334C. Level Design.
Restricted to Arts and Entertainment Technologies majors. Design and build interactive 2D or 3D game levels (game maps) using an industry standard tool such as Unity or Unreal. Explore the design pipeline for creating levels from concept and layout, to whiteboxing, creating and integrating environment art and sound, worldbuilding, and adding simple scripted interactions, animations, sound effects, and VFX. Examine the different design process for small indie games compared to big AAA games. Three lecture hours a week for one semester, with lab hours as required. Arts and Entertainment Technologies 334C and 339 (Topic: Level Design) may not both be counted. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 310.

AET 334E. Video Game Art Pipeline.
Restricted to Arts and Entertainment Technologies majors. An introduction to creating and working with game ready assets in 2D and 3D. Three lecture hours a week for one semester, with lab hours as required. Arts and Entertainment Technologies 334E and 339 (Topic: Game Art Pipeline) may not both be counted. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 310.

AET 334F. Video Game Scripting I.
Restricted to Arts and Entertainment Technologies majors. Introduction to scripting interactive content for games using an industry-standard scripting language and game engine. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 310.

AET 334J. Multiplayer Video Game Design.
Restricted to Arts and Entertainment Technologies majors. Examination of the design and technical requirements for developing multiplayer games in different genres. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 334E, 334F, and 334C or 334K.

AET 334K. Video Game Prototyping.
Restricted to arts and entertainment technologies majors. Explore rapid prototyping techniques for video game art and design using ideation, storytelling, pitching, prototyping, testing, and documentation. Three lecture hours per week for one semester. Only one of the following may be counted: Arts and Entertainment Technologies 333K, 334K and 339 (Topic: Game Prototyping). Offered on the letter-grade basis only. Prerequisite: Upper-division standing; Arts and Entertainment Technologies 304 and 310.

AET 134L, 334L. User Interface/User Experience for Video Games.
Restricted to Arts and Entertainment Technologies majors. An introduction to user interface (UI) and user experience (UX) design for video games. For each semester hour of credit earned, one lecture hour a week for one semester. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 310.

AET 334M. Video Game Systems Design.
Restricted to Arts and Entertainment Technologies majors. Create and apply play systems which establish the framework for user experience (UX) and level design. Three lecture hours a week for one semester, with lab hours as required. Arts and Entertainment Technologies 334M and 339 (Topic: Game System Design) may not both be counted. Prerequisite: Arts and Entertainment Technologies 334E, 334F, and 334C or 334K.

AET 334N. Interactive Storytelling.
Restricted to Arts and Entertainment Technologies majors. Apply cross-disciplinary methods to create immersive narratives for interactive experiences. Three lecture hours a week for one semester, with lab hours as required. Only one of the following may be counted: Arts and Entertainment Technologies 334D, 334N, 339 (Topic: Narrative Design for Games). Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 310.

AET 334R. Technical Art I.
Restricted to arts and entertainment technologies majors. Examine technical aspects of game content creation including shaders, animation, tool creation, and special effects. Three lecture hours a week for one semester. May be taken two times for credit. May be repeated for credit. Prerequisite: Arts and Entertainment Technologies 334E and 334F.

AET 334S. Technical Art II.
Restricted to arts and entertainment technologies majors. Explore advanced technical art projects for games. Three lecture hours a week for one semester. May be taken two times for credit. May be repeated for credit. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 334R.

AET 335D. Realtime Visualization.
Restricted to Arts and Entertainment Technologies majors. An introduction to using game engines and realtime graphics systems for architectural, automotive, and other types of product visualization.
Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 306.

AET 335F. Video Game Scripting II.
Restricted to Arts and Entertainment Technologies majors. Advanced scripting of interactive content for video games using an industry-standard scripting language and game engine. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 334F.

AET 135J, 335J. Live Video Game Design.
Restricted to Arts and Entertainment Technologies majors. An introduction to design methods for video games as a service and persistent multiplayer video game worlds. For each semester hour of credit earned, one lecture hour a week for one semester. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 334E, 334F, and 334C or 334K.

AET 335K. Virtual Reality for Video Games.
Restricted to Arts and Entertainment Technologies majors. Explores design and creation of virtual reality (VR) content for games, and deploying and testing on VR hardware. Three lecture hours a week for one semester, with lab hours as required. Arts and Entertainment Technologies 335K and 339 (Topic: Virtual Reality for Games) may not both be counted. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 334E, 334F, and 334C or 334K.

AET 336C. Video Game History and Culture.
Analyze the history of video games from their origins in computer labs, to their surge in popularity that has significantly impacted modern society. Examine the evolution of video games, their influences on culture and laws, controversies in gender politics and minority representation, and how the medium developed both commercially and as a form of artistic expression. Three lecture hours a week for one semester.

AET 337. Writing for Interactive Games.
Exploration of game creation as a multi-threaded narrative story. Students create, write, edit, and refine game stories and game dialogue and build small game scenarios using a variety of game design software platforms. Three lecture hours a week for one semester.

AET 337N. Introduction To Narrative.
Restricted to arts and entertainment technologies majors. Explore the origins, formal elements, and best practices of good storytelling across multiple mediums through study, analysis, and writing practice. For each semester hour of credit earned, one lecture hour a week for one semester. Arts and Entertainment Technologies 337N and 339 (Topic: Intro to Narrative) may not both be counted. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 304 and 310.

AET 139, 239, 339, 439. Advanced Topics in Arts and Entertainment Technologies.
Advanced topics in arts and entertainment technologies. For each semester hour of credit earned, one lecture hour a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Varies with the topic.

AET 341C. Virtual Instruments.
Restricted to Arts and Entertainment Technologies majors. An introduction to the concepts and current trends of virtual instruments to produce, arrange and orchestrate musical ideas in a variety of contemporary musical settings. Three lecture hours per week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 305.

AET 341D. Digital Musicianship.
Restricted to Arts and Entertainment Technologies majors. Explore harmony, chord progressions, and song structure in the MIDI grid. Three lecture hours per week for one semester, with lab hours as required. Arts and Entertainment Technologies 319 (Topic: Digital Musicianship I) and 341D may not both be counted. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 305.

AET 342C. 3D Modeling and Texturing.
Restricted to arts and entertainment technologies majors. Utilize hard surface and organic modeling workflows, modern texturing techniques, and physically-based shaders to create efficient assets based on clear content goals. Three lecture hours a week for one semester. May be taken three times for credit. May be repeated for credit. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 306.

AET 342D. 3D Materials And Lighting.
Restricted to arts and entertainment technologies majors. Explore 3D game models using state of the art workflows and tools. Three lecture hours a week for one semester. May be taken three times for credit. May be repeated for credit. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 306.

AET 343. Studio.
Restricted to arts and entertainment technologies majors. Explore arts and entertainment technologies ideas while intersecting with other disciplines in our industries. For each semester hour of credit earned, one lecture hour a week for one semester. May be taken three times for credit. May be repeated for credit. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 304 and 310.

AET 344D. 3D Previsualization for Live Entertainment.
Restricted to Arts and Entertainment Technologies majors. Instructs students on how to bring an idea from concept to fully rendered pitch-ready environment by utilizing 2D and 3D technical drafting tools in Vectorworks, and a lighting visualizer. Three lecture hours a week for one semester, with lab hours as required. Only one of the following may be counted: Arts and Entertainment Technologies 344, 344C, or 344D. Offered on the letter-grade basis only.

AET 346C. Video Game Modding.
Restricted to Arts and Entertainment Technologies majors. Focus on modifying existing video games to experiment with gameplay ideas and create unique play experiences. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 334E, 334F, and 334C or 334K.

AET 346D. Video Game Design Challenges.
Restricted to Arts and Entertainment Technologies majors. Focus on the creation of unique play experiences under extreme constraints. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 334E, 334F, and 334C or 334K.

AET 346J. Experimental Gameplay Workshop.
Restricted to Arts and Entertainment Technologies majors. An exploration of interactive systems and unique play experiences. Three lecture hours a week for one semester, with lab hours as
AET 348. Concert and Event Lighting.
Explore methodologies utilized in live event lighting. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Consent of instructor; Arts and Entertainment Technologies 348C.

AET 348C. Live Event Engineering.
Restricted to Arts and Entertainment Technologies majors. Examine a variety of design elements controlled over live entertainment networks, including hardware and software components and how they communicate with one another. Combine programming techniques, technical research, and design process. Three lecture hours a week for one semester, with lab hours as required. Only one of the following may be counted: Arts and Entertainment Technologies 348C, 360 or 360C. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 316C.

AET 348K. 3D Projection Mapping.
Restricted to Arts and Entertainment Technologies majors. Explore common 3D mapping techniques and applications that include architectural mapping, dome projection and Cave automatic virtual environments (CAVE) projection. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 348C; consent of instructor.

AET 348L. Advanced System Engineering.
Restricted to Arts and Entertainment Technologies majors. Study common signals (digital and analogue), data communication protocols, synchronization, show control as well as layout and contingency considerations for professional entertainment systems. Three lecture hours a week for one semester, with lab hours as required. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 329G and 348C.

Project in advanced sound processing and synthesis and audio-visual systems. Hours to be arranged. May be repeated for credit. Prerequisite: Consent of instructor.

AET 350C. Advanced Creative Coding.
Restricted to arts and entertainment technologies majors. Explore advanced computational concepts and their application to more diverse creative media domains including; audio, video, music, and the web. Three lecture hours a week for one semester. Arts and Entertainment Technologies 339 (Topic: Advanced Creative Coding) and 350C may not both be counted. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 310.

AET 351C. Audio Production Lab.
Restricted to Arts and Entertainment Technologies majors. Individual or team projects in audio production for live performance. Three lecture hours per week for one semester, with lab hours and performance participation as required. Offered on the letter-grade basis only. Prerequisite: Consent of instructor.

AET 351E. Do It Yourself Synthesizer Lab.
Restricted to Arts and Entertainment Technologies majors. Projects to design and build microprocessor-based synthesizers and special effects (SFX) components and systems. Three lecture hours per week for one semester, with lab hours and performance participation as required. Offered on the letter-grade basis only. Prerequisite: Consent of instructor.

AET 353. Advanced Topics in Video Game Development.
Restricted to Arts and Entertainment Technologies majors. Advanced topics in game development. For each semester hour of credit earned, one lecture hour a week for one semester. May be repeated for credit when the topics vary. Offered on the letter-grade basis only. Prerequisite: Arts and Entertainment Technologies 334E, 334F, and 334C or 334K. Additional prerequisites vary with the topic.

AET 361C. Physical Computing.
Restricted to Arts and Entertainment Technologies majors. Introduces concepts and methods of physical computing, including the creation, building, and programming of small devices and the integration of external devices and objects. Three lecture hours a week for one semester. Only one of the following may be counted: Arts and Entertainment Technologies 360, 361, 361C. Prerequisite: Arts and Entertainment Technologies 316 (or 317).

AET 368. Internship I.
Internship with an external company or institution, supervised by arts and entertainment technologies faculty. Requires completion of 150 hours of satisfactory on-site work. Hours to be arranged. Prerequisite: Sophomore standing, a University grade point average of at least 2.50, and consent of instructor.

AET 369. Internship II.
Internship with an external company or institution, supervised by arts and entertainment technologies faculty. Requires completion of 150 hours of satisfactory on-site work. Hours to be arranged. Prerequisite: Sophomore standing, a University grade point average of at least 2.50, and consent of instructor.

AET 370. Research Methods Proseminar.
Explore research methods and the preparation of a thesis topic and senior thesis proposal. The equivalent of one lecture hour a week for one semester.

AET 372. Senior Design Projects I.
Use acquired knowledge and skills to create a collaborative team project that can serve as a calling card to future employers or graduate schools. Hours to be arranged. Prerequisite: Upper-division standing.

AET 373. Senior Design Projects II.
Continue to use acquired knowledge and skills to create a collaborative team project that can serve as a calling card to future employers or graduate schools. Hours to be arranged. Prerequisite: Upper-division standing.

AET 374. Independent Study.
Independent study or research in arts and entertainment technologies. Hours to be arranged. May be repeated for credit. Prerequisite: Upper-division standing, a grade point average of at least 3.00, consent of instructor, and consent of the director of the Center for Arts and Entertainment Technologies.

AET 376. Game Capstone: 2-D.
Work in small teams from different disciplines to develop 2D games. Hours to be arranged. Only one of the following may be counted: Arts and Entertainment Technologies 376, Computer Science 354S, 378 (Topic: Game Devel Capstone: 2D Games), Music 354S, 376J (Topic: Game Devel Capstone: 2D Games), Theatre and Dance 354T (Topic 17), Radio-Television-Film 344N (Topic 6), 344T (Topic 1). Prerequisite:
Upper-division standing and consent of instructor based on portfolio submission.

**AET 377. Game Capstone: 3-D.**
Work in small teams from different disciplines to develop 3D games. Hours to be arranged. Prerequisite: Upper-division standing and consent of instructor based on portfolio submission.

**AET 378H. Honors Senior Thesis.**
Participate in a large scale senior project. The equivalent of four-and-one-half laboratory hours a week for one semester. Offered on the letter-grade basis only. Prerequisite: Upper-division standing; Arts and Entertainment Technologies 170, and consent of the Arts and Entertainment Technologies Honors Coordinator.

**Graduate Courses**

**Professional Courses**