99-101 Computing @ Carnegie Mellon
Fall and Spring: 3 units
Computing@Carnegie Mellon (C@CM) is a 3-unit, pass/fail mini course that will help you develop foundational computing and information literacy skills, focusing on the tools and technologies that are specific to Carnegie Mellon so you can be successful in your other academic courses. All undergraduate students are required to take the course. C@CM is offered in a hybrid format through the Open Learning Initiative’s (OLI) online course environment; meaning that you’ll complete your coursework online and attend a face-to-face recitation session for review and supplemental instruction.
Course Website: http://www.cmu.edu/c-cm/

99-129 DC Grand Challenge First-Year Seminar: Unreality: Immersive and Spatial Media
Intermittent: 9 units
Virtual news stories and game worlds are accessible by putting on cardboard goggles, theme parks are engineered to provide convincing multisensory experiences, and workforces are reliant on augmented views of factory floors. Immersive and spatial media constitute a suite of emerging technologies that offer the opportunity to expand arts, entertainment, science, design, commercial enterprises and countless other domains in ways that were previously limited to science fiction. The potential for augmented reality to disrupt our current technological ecosystem is tremendous. Many of these technologies are now 50 years old and just starting to enter the commercial realm. As immersive experiences and augmented realities become more integrated into our work and leisure, do we need to worry about the ways that unreality affect our experiences of reality, or our interactions with each other? How do we know that we can trust our senses to tell us what is real? How do we begin to grapple with the ethical, cultural, social, technological, and regulatory implications of this shift?

99-153 Mindful Living
Fall and Spring: 3 units
The goal of this course is to increase students internal resources for managing stress through mindfulness-based meditation training. Each week, students will be trained in formal mindfulness meditation practices and asked to meditate at home with the help of brief guided meditation recordings. Students will also be given weekly informal mindfulness practice suggestions to help them translate the skills of formal meditation practice into daily life. Class meetings will give students the weekly opportunity for reflection, discussion, and questions based on their experience of formal and informal practice assignments.

99-190 Managing Stress, Restoring Harmony
Fall: 6 units
This course is designed to explore the subject of stress and how it can be managed to achieve optimal health and wellbeing. Topics addressed will include: the environmental, mental and emotional components of stress, factors that affect the experience of stress, how stress contributes to illness, and an overview of various stress management techniques. Several lectures will be supported by Carnegie Mellon faculty and staff.

99-194 Intimate Relationships & Sexual Health
Spring: 6 units
This course will explore the expression of human relationships and sexuality. Emphasis will be placed on college health and the social, cultural and health factors that affect relational interactions. This course is designed to assist students with improved functioning in personal relationships, provide information to take care of their sexual health and help them acquire skills to make decisions now and in the future. Topic areas will include relationships, sexual behavior, sexual health and interpersonal skills. Academic support will be provided by campus and community partners.

99-250 Seminar for Peer Tutors
Fall and Spring: 1 unit
SPECIAL PERMISSION REQUIRED: YES The purpose of this training course is to provide undergraduates with the knowledge, skills, and experience necessary to become effective Peer Tutors. These students will be exposed to the mission and goals of Academic Development and the Peer Tutoring Program. The class lasts approximately nine weeks and is generally offered in the spring term from February through April. The course explores the roles and responsibilities of the tutor while offering insights into effective tutoring strategies through interactive discussion and role plays. In addition, trainees work hands-on with experienced tutors to troubleshoot potential problems and situations. Students will gain experience in group dynamics, communication skills, study strategies, referral resources, leadership, and creating a supportive learning environment. Teaching practice is an integral part of the training program. Students must complete an application in person or electronically at: https://www.cmu.edu/academy/jobs/index.html and then be interviewed by the instructor(s) to determine if the student possesses the basic qualifications.
Course Website: http://www.cmu.edu/academy/studentjobs/

99-262 ADDvocate: Anti-Discrimination Dialogue for Social Justice course at CMU-Q
Fall and Spring: 6 units
Issues of diversity, equity, and inclusion, commonly referred to as DEI, are becoming more prevalent in discussions about teaching in higher education. DEI not only affects students sense of belonging in the classroom, but also their overall motivation, learning and success in and beyond the classroom and future careers. Throughout this course, together, we will explore various topics related to DEI, beginning with an exploration of our own identities and those of our students, as well as other factors that influence DEI in the classroom. After understanding how identity influences the teaching and learning, we will learn about various frameworks, research, and evidence-based practices that can be used and applied in the classroom to overcome issues of DEI in classroom climate, course design, and in-class activities. To demonstrate understanding of course concepts, students will participate in class activities, complete weekly reflections, apply concepts in small homework assignments, and complete a final project (proposed by each individual student), to showcase their personal understanding and participation related to DEI. This course is designed for students who work in higher education, as educators, policy makers, or curriculum design specialists, to create classrooms that welcome, support, and respond to all students unique backgrounds and experiences. This course is also designed to accommodate students perspectives, interests, and knowledge regarding DEI, as students will have input regarding the the course content and assignments.

99-263 Centering Diversity, Equity, and Inclusion in Course Design & Teaching
Intermittent: 6 units
This course consists of student participation in projects focused on undergraduate research or creative inquiry under the direction of a Carnegie Mellon faculty member. Tenure track, teaching track, research track, librarian track, and special faculty may serve as SURA mentors. The subject of the inquiry, the number of units, and the criteria for grading are to be determined by the student and the faculty mentor. This agreement should be formalized in a one-page apprenticeship verification form that includes documented approval from the faculty mentor with a copy to be submitted to the Undergraduate Research Office. The students are responsible for finding a faculty member who is willing and able to supervise them on campus over the summer. In addition to the research experience, course requirements include a series of workshop sessions over the course of the summer that will introduce students to the basics of research design. Students will also be expected to present and/or attend the campus-wide undergraduate research symposium. Meeting of the Minds, in May of the following year. Students may register for a maximum of nine units with work to be completed over an eight-week period during the summer all term.
99-352 IDeATe: Soft Fabrication Skills
Fall and Spring: 1 unit
PLEASE NOTE: The specific meeting dates for the A1 section of this micro course are Sep 17, Sep 24, Oct 1. Textiles are a ubiquitous part of our everyday tactile experience. This workshop series aims to introduce textile techniques to participants with diverse backgrounds across the CMU campus. The fabrication skills and concepts that will be covered in this course will be taught from an interdisciplinary approach to merge practices in arts and technology. Students will learn methods of working with fabric such as hand and machine sewing, felting and knitting, along with merging aspects of digital fabrication and physical computing using flexible materials. Through discussions and demos, participants will have the opportunity to explore new methods of fabrication to integrate into their own practice.
Course Website: https://courses.ideate.cmu.edu/99-352

99-353 IDeATe: CAD and Laser Cutting
Fall and Spring: 1 unit
PLEASE NOTE: The specific meeting dates for the A1 section of this micro course are Sep 24, Oct 1, Oct 8. The specific meeting dates for the A2 section of this micro course are Oct 5, Oct 12, Oct 19. This micro course is an introduction to Computer Aided Design (CAD) and the use of laser cutters for fabrication. Students will learn the basics of SolidWorks, a popular CAD package. They will also receive hands-on training in the use of laser cutters to turn their designs into physical objects. Students who complete this course PLUS the separate fire safety training will be able to use the IDeATe facility (Hunt Library) laser cutters on their own for future course work or personal projects.
Course Website: https://courses.ideate.cmu.edu/99-353

99-355 IDeATe: Introduction to Arduino
Fall and Spring: 1 unit
PLEASE NOTE: The specific meeting dates for the A1 section of this micro course are Sep 25, Oct 2, Oct 9. The specific meeting dates for the A2 section of this micro course are Nov 4, Nov 11, Nov 18. This workshop aims to demystify the Arduino microcontroller through hands-on work in the lab creating simple machines with embodied behaviors. The Arduino is a versatile resource for physical projects for students in all disciplines. This course brings students over the beginner's threshold to a basic understanding of the use, terminology, and potential of the Arduino. The skills and concepts taught in this course are presented from an interdisciplinary approach which merges practices in arts and technology. The first portion will teach the essential skills for creating a simple sensor-driven physical computing system, and the second portion will reinforce those skills by making a simple interactive project. The course has no technical prerequisites, although uses a little bit of algebra-level math. Undergraduate students, graduate students, faculty and staff interested in learning new skills in an interdisciplinary environment are welcome!
Course Website: http://courses.ideate.cmu.edu/99-355

99-356 IDeATe: Digital Media Literacies: Great World Challenge
Fall and Spring: 9 units
This course introduces students to new media for ethnically finding, evaluating, producing and sharing artistic and scholarly innovations. It allows students the opportunity to gain practice with and exposure to tools, technologies and processes which support data analysis, visualization, communication, presentation and sharing through a variety of emerging and established dissemination channels. Students who excel in the course may be further supported in pursuing appropriate publication outlets for their research. The course will be of particular interest to students planning to engage in further undergraduate research opportunities.

99-357 IDeATe: Pragmatic Photography
Fall and Spring: 1 unit
PLEASE NOTE: The specific meeting dates for the A1 section of this micro course are Sep 25, Oct 2. The specific meeting dates for the A2 section of this micro course are Oct 29, Nov 5. Pragmatic Photography is a digital imaging course for the non-photographer. A tech-first approach provides a strong grounding in the core concepts and techniques of image-based media. This course will enable students to create photographs for project documentation. This class will not require special cameras or software; students will use commonly-available photo-editing software to create images using DSLRs, point and click cameras, or their cell phones. The course focuses on general principles that apply across different equipment and software.

99-361 IDeATe Portal
Spring: 9 units
Full descriptions of each section topic are available on course website. IDeATe Portal courses introduce students to key aspects of critical creativity, and technical preparation to engage them in productive interdisciplinary Collaborative Studio work in IDeATe minor areas. In section A: Geometric Construction, students will use computational tools for the body. Section B: Critical Environmental Awareness highlights the motivation and requirements for intelligent environments and components that could be used to add functionality to existing environments. Section D: Learning About Learning is a hands-on experiential class where students will gain knowledge, expertise, and empathy towards how humans process and make meaning, how we learn from our spaces, and how our objects and spaces learn from us.
Course Website: https://courses.ideate.cmu.edu/99-361

99-362 IDeATe: Intelligent Learning Spaces
Spring: 9 units
Intelligent Learning Spaces explores the interactions between human learning and the spaces in which learning occurs. In this project-based course, students discuss, analyze, define, and apply theory from education, architecture and the arts to their project work. Students investigate precedents and existing experiences to create their own learning manifestos and designs. Imagination, in-class participation, speculation, empathy and 360-degree awareness are key components of this class. Students work on scaffolded projects that build on their knowledge to showcase their intentions and creativity, reacting to a variety of contexts relevant to learning. Students have opportunities to develop creative inquiry skills and apply critical perspectives through project-based work that requires experimenting, hands-on learning, reflection, and documentation.

99-363 IDeATe: Spatial Storytelling
Spring: 6 units
Spatial Storytelling promotes the use of digital storytelling methods and methodologies across disciplinary topics. In this Spring mini, students are guided through the process from identifying a research problem, collecting data from diverse sources, learning spatial mapping, and finally crafting narrative. They will work with spatial information (geospatial data) to build complex multimodal narratives around social issues. By the end of this course, students will know: what are spatial data, how to find and identify different types of spatial data, how to create a story based on data, and how to analyze data in geospatial software. Students will be able to develop constructive critique and data literacy skills to critically review peer work across disciplinary topics. Using competencies gained over the semester, students will create an online interactive narrative and to present it to the broader community.

99-382 Technology, Humanity, and Social Justice: Environment
Fall: 3 units
As humans rely more and more on electronic devices to support their everyday activities, there are ever present warnings about the impacts such reliance has on human autonomy ranging from who owns and controls information networks, the inequitable impact of technology consumption on peoples and places, varying accessibility of technology around the globe, and the promises and limitations of technology in improving human health. By engaging in technology as a lens, this sequence of weekend micro-courses encourages students to examine technology as a system disproportionately impacting humanity by enabling and constraining human rights of groups of people around the globe. With a multi-disciplinary focus, the course invites researchers and practitioners from the University of Pittsburgh, Carnegie Mellon, and relevant fields more broadly. In Fall 2022, the focus will be on humanity's use of technology and the disparate impacts on and benefits to the environment and varying groups of people. This will include discussion around the material, environmental, and health costs of extracting materials necessary to technology development and production as well as the waste created by the consumption habits initiated by global reliance on technology. It will also include a discussion of technology's role in advancing sustainability. Added Note: The course will occur on Friday, Nov 4th, Saturday, Nov. 5th, and Sunday, Nov. 9th. Engagement in the course should be synchronous; accommodations for those in significant time zone differences will be provided to allow enrollment and completion of all elements of the weekend. If a student is interested in the course but unable to engage in the course dates, please reach out to Korryn Mozisek (kmozisek@andrew.cmu.edu).

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99-409 Summer Research
Summer: 1 unit
This course allows undergraduate students from all fields to participate in research (including artistic/creative inquiry) under the direction of a Carnegie Mellon faculty member. Tenure track, teaching track, research track, librarian track, and special faculty may serve as research supervisors. Students should have previously participated in summer research via the Summer Undergraduate Research Apprenticeship and/or the Summer Undergraduate Research Fellowship before enrolling in 99-409 (students who are unsure of whether 99-409 is appropriate for them should consult with the Undergraduate Research Office). Students will need to complete a supervisor agreement form to be eligible for participation in this tuition-free 1-unit course. Students are responsible for finding research supervisors. In addition to the summer research with the faculty member, students will be expected to write a brief (one- to two-page) research report about their summer work. This course is not eligible for CPT for international students; please contact the Office for International Education for more information regarding CPT.

99-530 Senior Preparation Seminar
Fall and Spring: 6 units
This mini course provides graduating seniors a chance to reflect on their experiences as students at Carnegie Mellon, intellectually, socially and as leaders in this community. In addition to its reflective component, the course will also look at how to prepare for upcoming transitions into post college roles and responsibilities. The course explores intrapersonal, interpersonal, and external factors at play for recent graduates.