

2025-2026

e4usa Credit and Placement Prospectus

Learn about college course credit and placement opportunities you can receive with Engineering for US All!



Table of Contents

About e4usa	4
e4usa Curriculum	5
Student Spotlight	8
Partner Spotlight: Nashville Zoo	9
Partner Spotlight: Duke University	11
Institutions Awarding Credit	12
AP® Computer Science Principles Credit Opportunities	13
Arizona State University	15
Bellarmino University	16
Chandler-Gilbert Community College	17
Drexel University	18
Duke University	19
East Carolina University	20
Florida International University	21
George Mason University	22
Kumasi Technical University	23
Lee University	24
Lincoln Memorial University	25
Metropolitan State University of Denver	26
Morgan State University	27

New York University	28
Northeastern University	29
Purdue University, College of Engineering	30
Purdue University	31
Regent University	32
South Mountain Community College	33
Tennessee State University	34
The College of New Jersey	35
The University of Memphis	36
Towson University	37
University of Hawai'i at Mānoa	38
University of Indianapolis	39
University of Louisville	40
University of Maryland, Baltimore County	41
University of Maryland, College Park	42
University of New Mexico	43
University of Oklahoma	44
Virginia Tech	45
West Virginia University	46
Stay Connected	47
Acknowledgements	48

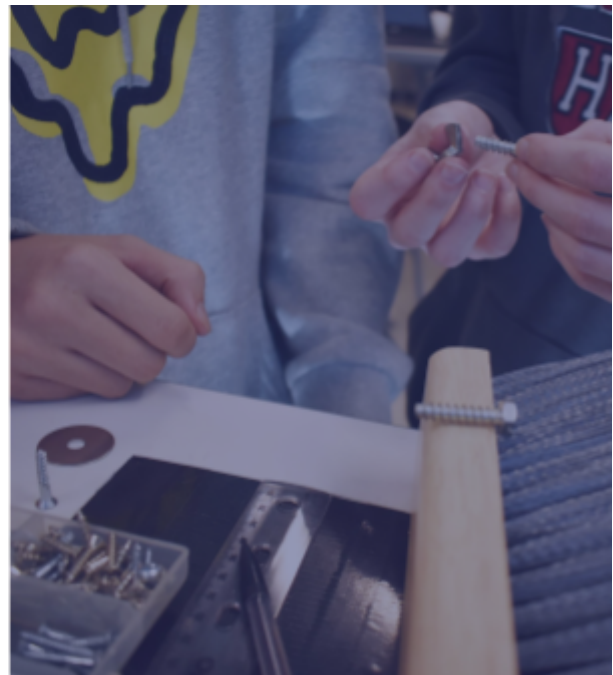
About e4usa

Engineering for US All (e4usa) is dedicated to shaping the next generation of engineers through hands-on learning and real-world applications. Our core mission is to empower students by providing them with the skills necessary for success in the engineering field.

To date, e4usa involves over **100** high school partners, **41** university partners, and more than **15,000** students.

Through community-focused design experiences, students learn the engineering design process, a critical tool for problem-solving that applies to any industry. At e4usa, we believe that by equipping students with the knowledge and skills to think innovatively and solve real-world problems, we help prepare them for impactful careers in engineering and beyond.

e4usa provides an educational curriculum for pre-college students to learn and demonstrate engineering principles, skills, and practices. The curriculum incorporates an authentic, design-based experience and affords students the opportunity to earn college credit at participating colleges and universities.



e4usa Curriculum

Engineering is all around us! e4usa **empowers, engages, and excites** students to use their knowledge and passions to take control and boldly influence the world.

e4usa has a program of study that includes e4usa + Making, e4usa + Programming, and e4usa + Design. We also still have the e4usa Legacy course. In these courses, each unit covers at least four of our signature course threads, with e4usa + Programming covering five, to help students achieve the following course learning outcomes:



Connect with Engineering

CE.A	Iterate and evolve the definition of what it means to engineer and be an engineer.	
CE.B	Recognize the value of engineering for all regardless of one's potential career.	
CE.C	Explain and apply ethical considerations when exploring an engineering problem.	



Engineering in Society

ES.A	Explore the impacts of past engineering successes and failures on society as a whole.	
ES.B	Recognize and investigate the world's greatest challenges and the role that engineering plays in solving these challenges (e.g., Engineering Grand Challenges, UN sustainability goals, etc.).	
ES.C	Integrate cross-disciplinary thinking and expertise to inform design solutions that add value to society.	
ES.D	Identify and analyze issues when bringing a solution to scale.	



Engineering Professional Skills

PS.A	Use various engineering communication methods.	
PS.B	Collaborate effectively in a team.	
PS.C	Develop, implement, and adapt a project management plan.	



Engineering Design

ED.A	Identify and describe a problem that can be solved with a potentially new product or process.	
ED.B	Identify appropriate stakeholders and content experts and evaluate their input.	
ED.C	Plan and conduct research by gathering relevant and credible data, facts, and information.	
ED.D	Articulate appropriate STEM practices and principles in the design.	
ED.E	Evaluate solution alternatives and select a final design by considering assumptions, tradeoffs, criteria, and constraints.	
ED.F	Create a prototype.	
ED.G	Create and implement a testing plan to evaluate the performance of design solutions.	
ED.H	Apply iteration to improve engineering designs.	
ED.I	Articulate and reflect on how an engineering design process could be applied to solving a problem.	



Technical Content (Course Learning Outcomes for e4usa + Programming only)

TC.A	Design and develop computational solutions to engineering problems using an iterative process.	
TC.B	Demonstrate knowledge of and skills related to data in engineering contexts.	
TC.C	Write MATLAB programs using knowledge of and skills related to algorithms and programming.	
TC.D	Demonstrate an understanding of computer systems and networks in engineering applications.	
TC.E	Evaluate the impacts of computing in engineering and society.	
TC.F	Collaborate effectively on computational engineering projects.	



Technical Content (Course Learning Outcomes for e4usa + Making OPTIONAL)

TC.H	Use spatial reasoning to understand engineering drawings.	
TC.I	Create 2D sketches and 3D models in CAD.	
TC.J	Create mated assemblies in CAD.	
TC.K	Develop new engineering drawings in CAD.	
TC.L	Share CAD parts and files digitally.	
TC.M	Test designs using CAD models.	

Student Spotlight



e4usa: Transforming Student Futures Through Real-World Experience

"e4usa helped confirm an interest in engineering and encouraged me to pursue it as a profession."

Our mission at e4usa is to empower a new generation of engineers by providing students with the tools, skills, and confidence they need to succeed in this dynamic field. Through a standardized, design-based curriculum, e4usa prepares students for college and life.



e4usa also helps students discover their passion for engineering and solidifies their career paths. Gracie Gore, an e4usa alumna from Brentwood High School (TN), pictured on the left in the above photo, describes how the program influenced her career choice: "e4usa helped confirm an interest in engineering and encouraged me to pursue it as a profession. It helped me understand the broad applications of engineering to improve the lives of people and support communities. Having a taste of the design process gave me a better appreciation for the care and meticulous planning that goes into developing a product."

The impact of e4usa extends far beyond high school. Jacob Davis, an e4usa alumnus from Plymouth Whitmarsh High School (PA), is pictured on the right in the above photo. He credits e4usa for giving him a head start in college. Jacob recently graduated at the top of his class and earned membership in Alpha-Nu-Sigma, the Nation's Nuclear Engineering Honor Society. "My time with e4usa was instrumental in my college education. Unlike my peers, I came into college with an understanding of many of the key aspects of engineering already understood. Not only was I a capable problem solver and contributor, but I also learned numerous project management skills."

Partner Spotlight

e4usa and Nashville Zoo: A Five-Year Partnership in Engineering Design

The e4usa+Design course at Brentwood High School in Tennessee offers students a unique opportunity to explore engineering design as a tool for solving real-world problems, as seen in the photos. Through a partnership with Nashville Zoo, students apply their skills in a hands-on environment, working directly with zookeepers and veterinary staff to create innovative solutions that benefit both animals and the zoo's operations.



Design is the cornerstone of engineering, and the e4usa+Design course is structured to help students develop personal problem-solving agency. Students gain autonomy and mastery in tackling challenges by practicing a systematized engineering design method. The course emphasizes troubleshooting, optimization, and the negotiation of trade-offs in design, all within contexts of increasing ambiguity and complexity. These skills are not just theoretical; they are applied in meaningful ways through the partnership with Nashville Zoo.

A key component of the e4usa program is the pairing of high school teachers with industry or faculty liaisons from university partners. This partnership connects teachers with industry experts who can assist with project ideas, troubleshooting, and collaborative brainstorming. At Brentwood High School, Stacy Klein-Gardner, e4usa's Executive Director, serves as the liaison, supporting the program's implementation and ensuring that students have a rich learning experience. Stacy shared, "Working with the Brentwood High School students is my favorite part of the week. The joy they have in solving real problems for Nashville Zoo comes through in the hard work they put in. The Zoo's partnership is exemplary each year and such a contribution to the course." The partnership with the Zoo is a prime example of how teachers, with the support of their liaisons, can offer students an enriching, real-world application of their engineering education.

Now in his fifth year teaching the e4usa+Design course, Mike Kiser has been instrumental in the success of the partnership with Nashville Zoo. His dedication to fostering a hands-on, problem-solving environment has inspired his students to tackle complex challenges with



creativity and determination. Under his guidance, students have made significant contributions to the Zoo, from developing enrichment items that prevent stereotypical behaviors in animals to working on a sophisticated animal lift project with the veterinary clinic. Kiser's commitment to his students and the e4usa mission exemplifies the impact that a passionate educator can have on both students and the broader community.

For the past five years, students have worked closely with zookeepers to create enrichment items for animals. These items are designed to prevent stereotypical behaviors, such as pacing or licking, which can occur in animals under stress. Zookeepers submit project ideas, and students select the ones they are most passionate about, allowing them to engage deeply with the needs of the animals. Past student teams have helped the okapi, Andean bears, tapir, clouded leopards, and giraffes.

One of the ongoing projects involves collaboration with the zoo's veterinary clinic. Over the last two years, students have been working on an animal lift designed to assist in handling heavy animals with unusual centers of gravity. While the project has not yet been perfected, significant progress has been made, and there is hope that this year will be the breakthrough.

Additionally, their designs are documented in a digital portfolio, ensuring that their efforts are recognized and can potentially count towards college credit with one of our university credit and placement partners.

The partnership between e4usa and Nashville Zoo exemplifies the power of engineering design education in creating real-world impact. With the support of dedicated teachers like Mike Kiser and the guidance of university liaisons like Stacy Klein-Gardner, students are empowered to develop solutions that benefit both their community and their learning. As this collaboration continues to evolve, it remains a shining example of how education, industry, and community can come together to foster innovation and problem-solving with e4usa!

Partner Spotlight

Duke and Oxford: Partners in Project-Based Learning

"My students really enjoy working with the EGR101 class at Duke. Collaborating with Duke has made a tremendous impact on my program." - Doug Roberson, e4usa Teacher

All first-year engineering students at Duke University take Engineering 101 (EGR101), a hands-on design course that tackles a variety of projects sourced from local community stakeholders. It was professor Nan Jokerst's idea to link EGR101 with Doug Roberson's e4usa classes at Oxford Preparatory School in North Carolina. One of professor Jokerst's e4usa projects serves as the project for the Oxford Prep classes, and the high school students work in parallel with the first-year Duke engineering students.

Dr. Jokerst is the Executive Director of the Shared Materials Instrumentation Facility (SMIF), Duke's nanotechnology core facility nestled within the Pratt School of Engineering. SMIF helps facilitate the partnership between e4usa and EGR101, with staff engineers serving as liaisons for Mr. Roberson's e4usa classes and technical mentors for EGR101 undergraduate teams.

Through this partnership, Mr. Roberson's e4usa students are exposed to authentic engineering problems, scientific equipment, and actual working engineers and scientists. Students receive technical mentorship from SMIF staff, who answer questions, guide students through the engineering design process, and provide feedback to aid students in iterating on their designs. Students also have the opportunity to come to Duke University campus to showcase their final designs to the project stakeholder, tour makerspaces such as the Innovation CoLab and the Design Pod, meet with current undergraduates, and generally soak in the vibe of a bustling University campus.

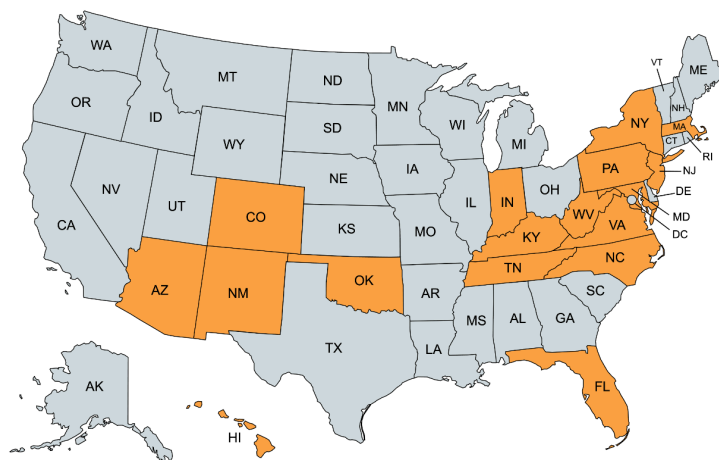
The connection between e4usa and the Pratt School of Engineering provides opportunities to humanize the engineering profession, create positive relationships between Duke scientists and the local region, and inspire the next generation of engineers and potential Duke students.



Institutions Awarding Credit

At the end of the 2025-2026 academic year, 31 institutions in 17 states and Ghana have created pathways for students to receive college credit and placement for successfully completing an e4usa high school course.

Additional institutions are exploring ways to offer students credit and placement, and we are excited to watch the list of states and institutions awarding credit grow in the near future.



states, territories, and regions
with institutions awarding e4usa
students credit or placement

AP[®] Computer Science Principles Credit Opportunities

Many of our partner institutions offer AP[®] Computer Science Principles (AP[®] CSP) credit. Students who complete the e4usa + Programming course will have the opportunity to take the AP[®] CSP exam. As such, students completing both e4usa + Programming and getting an accepted score on the AP[®] CSP exam will have the opportunity to receive credit at many of our partner institutions. This list includes all institutions currently giving some form of e4usa credit that are also offering AP[®] CSP credit. However, there are many more institutions across the nation with these credit offerings, as well.

Note that this was the most updated information as of September 2024. It is the student's responsibility to check that this information is still correct on the corresponding institution's website.

Institution	Minimum AP [®] Score	Course Equivalent	Credits/Hours
Arizona State University	3	IFT 101	3
Bellarmine	3	Elective	3
Chandler-Gilbert Community College	5	Elective	3
Duke University	5	COMPSCI 20	1
Florida International University	3	NPM UCC1	3
George Mason University	3	CS Elective (Score of 3) or CS 100 (Score of 4 or 5)	3
Morgan State University	3	Lower Level Elective (Score 3) or COSC 112 (Score of 4 or 5)	4
Northeastern University	4	CS 1990 Computer Science elective	4
Purdue University	3	CS 1XXXX (Score of 3 or 4) or CS 17700 (Score of 5)	Varies
Regent University	3	CSCI 201	3
South Mountain Community College	5	Elective	3
Tennessee State University	4	Computer Science 1210 & 2110	6
The University of Hawai'i at Mānoa	3	ICS 103	3

Institution	Minimum AP® Score	Course Equivalent	Credits/ Hours
<u>University of Indianapolis</u>	3	CSCI-132 Software App for the Sciences	3
<u>University of Louisville</u>	3	CIS 100X or CSE 100X	3
<u>University of Maryland, Baltimore County</u>	3	CMSC lower-level elective	3
<u>University of Maryland, College Park</u>	3	Lower Level Elective [INST majors - consult advisor for applicability]	3
<u>The University of New Mexico</u>	3	CS 105L	3
<u>Virginia Tech</u>	3	MASC ELECTIVE	3
<u>West Virginia University</u>	3	CS 1AP	3

Arizona State University

About Arizona State University

Arizona State University (ASU) is a top ranked research university in the greater Phoenix metropolitan area. The university is a model for the New American University, committed to excellence, innovation, and impact.

The Ira A. Fulton Schools of Engineering (FSE) is one of the largest and most comprehensive engineering programs in the U.S. FSE offers 25 undergraduate programs and 47 graduate programs housed within 7 schools:

- School of Biological and Health Systems Engineering
- School of Computing and Augmented Intelligence
- School of Electrical, Computer and Energy Engineering
- School for Engineering of Matter, Transport and Energy
- School of Manufacturing Systems and Networks
- School of Sustainable Engineering and the Built Environment
- The Polytechnic School



Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): STS 102/ASU 194 - Engineering for All

Credits: 3 in [University General Studies](#) offered through the [College of Integrative Sciences and Arts](#)

Credit pathway: Concurrent Enrollment through [ASU Prep Digital](#)

Details: Please submit ASU Prep Global's Application Form. Then, follow the steps provided to request your course (STS 102). You will receive a notification that there is a payment waiting on your ledger to prepay for the course(s) requested. The 2024-2025 cost for ASU Online courses is \$675. You will receive communication from ASU Prep Global regarding your ASU Online course enrollment.

Point of Contact: Dr. Medha Dalal (medha.dalal@asu.edu)

Cost: \$675

Other: Students do not need to matriculate at ASU to earn credits.

e4usa + Programming aligns with AP® CSP. See this institution's opportunities [here](#)!

Bellarmino University

About Bellarmine

Bellarmino is an inclusive, private, Catholic university in Louisville, Ky., where meaningful connections lead to successful outcomes.

We'll help you determine not just what you want to do, but who you want to be, and a pathway to achieve that. The Bellarmine IMPACT ensures you have the right tools to succeed through highly personalized teaching, advising, mentoring, and career counseling.

You'll receive hands-on, experience rich learning, inside and outside the classroom. Rich academic experiences are paired with rewarding opportunities to explore, discover, grow and transform – so you can become a version of yourself you may never have dreamed possible.



Fast Facts

Students in the Bachelor of Arts in Computer Science are exposed to a wide range of foundational courses including:

basic programming	compiler construction
data structures	algorithms
logic design	software engineering
operating systems	

Courses in artificial intelligence, machine learning, and database technologies are offered as electives, and internships are available.

After completing the program, students are prepared for careers in software development, networking, database administration, and various programming contexts including business, science, and engineering.

AP Policy: students who earn a 3, 4, or 5 on Exam Computer Science A get credit for CS 130, and a 3, 4, or 5 on Exam Computer Science Principles get credit for a 3-credit Computer Science Elective.

Chandler-Gilbert Community College

About Chandler-Gilbert Community College

One of the ten Maricopa Community Colleges located in Chandler, Arizona, in the East Valley. The mission of CGCC is to empower every student to unlock their full potential for growth and innovation through learning opportunities and community engagement.

The engineering program at CGCC offers two pathways:

- The AS, Emphasis in Engineering, provides the majority of the first two years of a four-year curriculum for students who wish to transfer to a four-year institution to earn a bachelor's degree in engineering.
- The AAS in Engineering Technology Program prepares students to be engineering technicians.

More than 17 disciplines are offered, such as mechanical, electrical, civil, aerospace, computer systems engineering, and software engineering.



Learn more at: www.cgc.edu/engineering

Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): ECE150 - Exploring Engineering and its Impact on Society

Credits: 3 credits

Placement: Open to all students (engineering and non-engineering), no prerequisites course

Credit pathway: Credits applied to the AAS and AS programs as [HU] credits

Details: [ECE150 Maricopa course description](#)

Point of Contact: Nichole Neal (nichole.neal@cgc.edu)

Cost: 3 credits

e4usa + Programming aligns with AP® CSP. See this institution's opportunities [here!](#)

Drexel University

About Drexel University

Drexel University is a comprehensive R1 research institution and global leader in experiential education located in the heart of Philadelphia, Pennsylvania.

Our engineering students are developing new renewable energy sources, exploring AI business applications, using 3D printing to create new biological tissues, and so much more — all while combining world-class academics with the power of real-world experience.

Our unique model serves as a launching pad for your curiosity, determination, and vision. Discover new ways to explore the world around you as a Drexel Dragon.

Learn more about [engineering majors](#) at Drexel to find what Drexel undergraduate program might be right for you.

More at <https://drexel.edu/admissions/undergrad>



Fast Facts

Institution Course: CS 150, Computer Science Principles

Credits: 3 quarter credits

Placement: The course will apply to Drexel University any program that requires CS 150, Computer Science Principles or Free Electives (see degree options and requirements [here](#)).

Credit pathway: AP[®] Computer Science Principles

- **Details:** Submit your AP[®] Computer Science Principles exam score to Drexel University. A score of 4 or 5 is required to receive credit. AP[®] credit will appear on your transcript.
- **Point of Contact:** Admissions Services, Enrollment Management (DrexelTCE@drexel.edu)

Cost: Once a student is accepted into Drexel University, there is no additional cost to transfer credit.

Other: For more information on Drexel University's High School Advanced Credit policy click [here](#).

Duke University

About the Pratt School of Engineering

At Duke's Pratt School of Engineering, students learn through authentic, hands-on experiences.

Our innovative First-Year Design and First-Year Computing courses are immersive and transformative. Real-world problem solving instills reserves of grit and resilience while inspiring students along their engineering journey.

For undergraduates, we offer ABET-accredited majors in:

- Biomedical Engineering
- Civil Engineering
- Electrical & Computer Engineering
- Environmental Engineering
- Mechanical Engineering

You're invited to join our supportive, close-knit community of scholars that defines excellence in engineering education, research, and societal impact.

More at pratt.duke.edu/undergrad



Fast Facts

e4usa course(s): e4usa+Programming

Institution course(s): Computer Science 20: Principles of Computer Science

Credits: 1 course of general elective credit

Placement: Any Computer Science course

Credit pathway: AP[®] Computer Science Principles exam

Details: Submit your AP[®] Computer Science Principles exam score to Duke University. A score of 5 is required to receive credit. AP[®] credit will appear on your transcript.

Point of Contact: Office of the University Registrar (registrar@duke.edu)

Cost: \$0

Other: Students must matriculate at Duke University to earn credit. AP[®] exam score should be sent to Duke the summer before arriving on campus.

e4usa + Programming aligns with AP[®] CSP. See this institution's opportunities [here!](#)

East Carolina University

About ECU

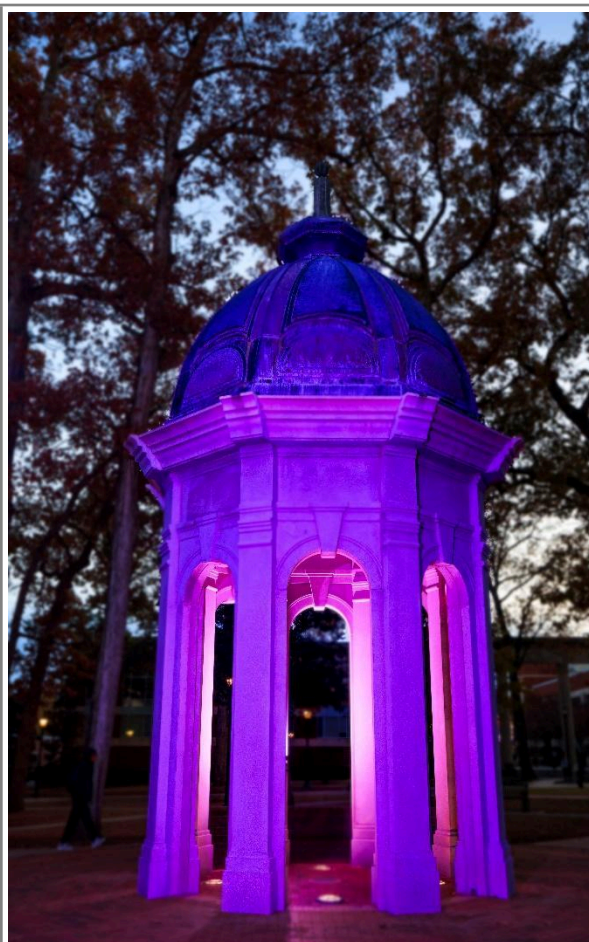
To be a national model for student success, public service and regional transformation, East Carolina University:

- Uses innovative learning strategies and delivery methods to maximize access
- Prepares students with the knowledge, skills and values to succeed in a global, multicultural society
- Develops tomorrow's leaders to serve and inspire positive change
- Discovers new knowledge and innovations to support a thriving future for eastern North Carolina and beyond
- Transforms health care, promotes wellness, and reduces health disparities and
- Improves quality of life through cultural enrichment, academics, the arts, & athletics

We accomplish our mission through education, research, creative activities, and service while being good stewards of the resources entrusted to us.

Visit the Department of Engineering at

<https://cet.ecu.edu/engineering/>



Fast Facts

Course: e4usa +Design or Legacy

Credits: 2

Placement: ENGR 1016 Introduction to Engineering Design

Credit pathway: Portfolio Review + Credit by Exam

Details: Submit your portfolio to engineering@ecu.edu. Upon review and approval of the portfolio, credit by exam will be arranged.

Point of Contact: Chris Venters, Undergraduate Program Director engineering@ecu.edu

Cost: \$20 (Credit by Exam Fee)

Other: Students must matriculate to East Carolina University and be accepted as an Engineering major to earn credit.

Florida International University

About Florida International University

FIU is among the top 10 largest universities in the USA. Forbes magazine ranked Miami “America’s Cleanest City” based on its air quality, green spaces, drinking water, clean streets and recycling programs. It’s a perfect environment for learning, exploring and having some fun along the way. The student population comes from all 50 US states and 142 countries. You’ll get to meet a variety of smart, interesting people from all around the world!

FIU’s College of Engineering and Computing is South Florida’s leading engineering education resource. Our students enjoy the benefits of many small classes, experiential learning opportunities and close interaction with WorldsAhead faculty. Through internship opportunities in the industry and hands-on research activities in our cutting-edge laboratories, our graduates are prepared to hit the ground running in their chosen careers. Learn more by visiting <https://cec.fiu.edu/>



Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): EGS 1006: Introduction to Engineering

Credits: 3

Placement: Engineering Topics

Credit pathway: Pathway Syllabus will be evaluated by faculty in the Department of Mechanical and Materials Engineering on a case-by-case basis

Details: The Department of Mechanical and Materials Engineering will do a full review of the syllabus.

Point of Contact: Dr. Bruk T. Berhane (bberhane@fiu.edu)

Cost: \$0

Other: For instructions on how to initiate the process visit: [Academic Advising - FIU College of Engineering and Computing](#)

e4usa + Programming aligns with AP® CSP. See this institution’s opportunities [here!](#)

George Mason University

About George Mason

George Mason University is the largest public research university in Virginia, with an enrollment of over 39,000 students studying in over 200 degree programs. Mason is an innovative, entrepreneurial institution with national distinction in a range of academic fields.

Its proximity to Washington, D.C. provides unmatched geographical access to a number of federal agencies and national laboratories.

The College of Engineering and Computing (CEC) at George Mason University is comprised of the Volgenau School of Engineering and a new School of Computing. Ranked nationally in the top 100 in both undergraduate and graduate education, the College boasts more than 10,000 students in 37 undergraduate, master's, and doctoral degree programs, including several first-in-the-nation offerings.



Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): ENGR 110 - Engineering & Social Justice

Credits: 3 credits

Credit pathway: Early Identification Program Enrollment

Details: To become an EIP Prep Student, a candidate must first be recommended by their school counselor and/or a teacher. Once nominated, students and their parents are invited to attend an information session where the benefits of the program are outlined and families are given instruction on how to access the online EIP Prep Application link. For your reference, the EIP Prep nomination period is during the spring semester; please view the timeline reference link below.

Point of Contact: The Office of Community Engagement and Civic Learning (cecdoil@gmu.edu)

Cost: \$150 (Financial Aid Available)

Other: Students must enroll at George Mason University as a high school matriculant. Information around non-degree enrollment can be found [here](#).

e4usa + Programming aligns with AP® CSP. See this institution's opportunities [here](#)!

Kumasi Technical University

About Kumasi Technical University

Kumasi Technical University (KsTU) is ranked the #1 technical university and #8 among all Ghanaian universities with the mandate to provide higher education in engineering, applied arts, sciences, and technology, as well as technical and vocational training. KsTU is a prominent and reputable tertiary institution located in the heart of Kumasi, the Garden City of West Africa; and the Capital of the Ashanti Region, Ghana. It has since its establishment become an enviable hub for the training of professionals with entrepreneurial skills in Ghana and beyond.

The Faculty of Engineering at KsTU offers the following engineering programs:

- Electrical and Electronic Engineering
- Chemical Engineering
- Oil and Gas Engineering
- Mechanical Engineering
- Automotive Engineering
- Mechatronics
- Civil Engineering
- Building Services Engineering



Fast Facts

e4usa course(s): Preliminary Engineering (e4usa+Making)

Credits: 2 credits in the university's pre-engineering program for non-science students.

Placement: High school graduates with evidence of the e4usa course will be made to transfer credit into the pre-engineering program.

Credit pathway: The pre-engineering program leads to students taking any engineering degree of their choosing.

Point of Contact: Ing. Linus Antonio Ofori Agyekum, linus.aoagyekum@kstu.edu.gh

Cost: The pre-engineering program fee is applied.

Other: Students must enroll in the KsTU pre-engineering program to earn credits. To initiate the process, visit: www.kstu.edu.gh

Lee University

Fast Facts

e4usa course(s): e4usa+Making, e4usa Legacy

Institution course(s): e4usa students receive credit for ENGR 161 – Introduction to Engineering with a successful completion of the course.

Credits: 1 hour

Placement: Open to all students, no prerequisites course

Credit pathway: Dual Enrollment

Details: Completion of an e4usa-affiliated high school course with a B or higher.

Point of Contact: Dr. Marcie Williams
(marciewilliams@leeuniversity.edu)

Cost: \$0

Other: For more information about Lee University visit: www.leeuniversity.edu



About Lee University

Lee University is a private, comprehensive university located in Cleveland, Tennessee, in the foothills of the Appalachian Mountains. Lee is emerging as a leader in higher education in the southeastern region and is consistently ranked in the "Top Tier" of the Best Regional Universities in the South by U.S. News & World Report. Lee is also ranked by Princeton Review's "Best Colleges," and is one of the 141 colleges named Best in the Southeast.

Over the past two decades, Lee has become one of the largest Christ-centered private institutions in Tennessee and in the Appalachian College Association. During that period, the university has seen a remarkable transformation that has included significant growth in its academic programs, student enrollment, faculty expertise, and diversity, as well as an expanded sense of mission and vision.

Lee University offers a Bachelor of Science in Engineering or a 3 + 2 year dual degree partnership with the University of Tennessee Chattanooga and Tennessee Technology University to obtain specialized degrees in engineering.

Lincoln Memorial University

About Lincoln Memorial University

Lincoln Memorial University was founded in 1897 as a living memorial to Abraham Lincoln. LMU is located in Harrogate, Tennessee, where Tennessee, Kentucky, and Virginia merge at the Cumberland Gap, approximately 55 miles north of Knoxville, Tennessee. We are proud of our beautiful, historic, 1,000-acre wooded campus with 43 academic, administrative, and residential buildings.

The Lincoln Memorial University School of Engineering offers:

- Personalized academic advising
- Small class sizes
- Intern and co-op opportunities
- Relationship building with industry personnel

For more information on what the engineering program has to offer visit:

<https://www.lmunet.edu/school-of-engineering/index>



Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): ENGR 100 Engineering Portal

Credits: 1

Credit pathway: Dual Enrollment

Details: Enrollment in an e4usa-affiliated high school course.

Point of Contact: Dr. Ryan Overton (ryan.overton@lmunet.edu)

Cost: Standard tuition and fee rates offset by state/school district support.

Other: Learn more by visiting <https://www.lmunet.edu/school-of-engineering/index>

Metropolitan State University of Denver

About MSU Denver

Engineering, and Design (CACED), where we turn curiosity into innovation. Whether you dream of soaring through the skies, coding the future, engineering solutions, or designing the next big idea, we provide hands-on learning, research opportunities and student-led organizations that transform passion into purpose.

This is where **changemakers** are made and where **you** belong. From Aerospace Systems and Mission Design to Engineering and Industrial Design, our programs are built on curiosity, creativity, and the drive to shape a better future. With hands-on learning and cutting-edge technology, you'll gain the skills and experience to thrive in some of the most in-demand industries across Colorado and the nation. At CACED, education fuels discovery, and discovery sparks the innovations transforming the world.



Fast Facts

e4usa course(s): e4usa+Programming

Institution course(s): CS 1030 - Computer Science Principles

Credits: 4 credit hours of computer science coursework

Placement: Any computer science course

Credit pathway: AP® Computer Science Principles exam

Details: Submit your AP® Computer Science Principles exam score to MSU Denver. A minimum score of 3 is required to receive credit. AP® credit will appear on your transcript.

Point of Contact: Office of University Registrar

<https://www.msudenver.edu/registrar/alternative-credit/#standardized-exams>

Cost: \$0

Other: If you have completed AP examinations, submit them to Metropolitan State University of Denver through [College Board](#). This Office, in consultation with the appropriate department chair, determines the amount and nature of credit and/or advanced placement granted.

Morgan State University

Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): ENGR 110: Engineering For US All

Credits: 3 in the General Education Program

Credit pathway: Concurrent Enrollment

Details: Evaluation consists of 1) e4usa high school engineering design portfolio review and 2) 980 SAT score (Critical Reading and Mathematics) or 19 ACT composite

Point of Contact: Petronella James
(petronella.james@morgan.edu)

Cost: Standard tuition and fee rates offset by state/school district support.

Other: For instructions on how to initiate the process visit:

<https://www.morgan.edu/office-of-undergraduate-admission-and-recruitment/how-to-apply/dual-enrollment>

e4usa + Programming aligns with AP® CSP. See this institution's opportunities [here!](#)



About Morgan State University

Morgan State University, founded in 1867, is a Carnegie-classified, doctoral, high-research institution providing instruction to a multiethnic, multiracial, multinational student body and offering more than 125 academic programs.

As Maryland's Preeminent Public Urban Research University, Morgan fulfills its mission to address the needs and challenges of the modern urban environment. Located in a charming residential area of northeast Baltimore, Morgan's impressive, 152-acre campus features state-of-the-art facilities geared toward innovative teaching and learning in the 21st century. Designated as a National Treasure by the National Trust for Historic Preservation, this National Treasure offers a safe and inviting learning environment with easy access to the best the city has to offer.

The Clarence M. Mitchell Jr. School of Engineering has four accredited undergraduate engineering programs in the areas of Civil Engineering, Electrical and Computer Engineering, Industrial and Systems Engineering, and Transportation Systems Engineering.

New York University

New York University



The NYU Tandon School of Engineering offers a wide range of engineering, technology, and applied science programs at undergraduate, graduate, and doctoral levels. The school is located primarily in Downtown Brooklyn and is one of the major engineering schools within New York University.

Undergraduate Programs (BS Degrees)

NYU Tandon offers 15+ undergraduate majors in engineering and technology fields.

Engineering & Science Majors

- Applied Physics
- Biomolecular Science
- Chemical and Biomolecular Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Mechanical Engineering

Fast Facts

e4usa course(s): e4usa Design, e4usa Legacy

Institution course(s): EG1004: introduction to Engineering Design

Credits: 4 credits

Credit pathway: Credit for prior learning/Portfolio review

Details: Open to students who have achieved a grade of B or better in their e4usa course (Legacy or Design). Qualifying students can submit their e4usa high school engineering design portfolio for review to demonstrate that they have met the course learning objectives. An additional student interview may be requested to further clarify their achievements.

Point of Contact: Rui Li (rui.li@nyu.edu) and Dr Ingrid Paredes (ijparedes@nyu.edu)

Cost: \$0

Other: e4usa Students may also be eligible to enroll in NYU's robotics course through their vertically integrated program (VIP). Another alternative option for e4usa, students is to participate in summer research activities to earn credits.

Northeastern University

About Northeastern University

Founded in 1898 in Boston, Massachusetts, Northeastern is a private research institution with 13 global campuses renowned for its signature cooperative education and experiential learning programs.

The College of Engineering offers full-time programs leading to Bachelor of Science degrees in the fields of:

- Bioengineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Environmental Engineering
- Industrial Engineering
- Mechanical Engineering

Plus dozens of combined majors, graduate certificates, masters and doctoral degrees and more. Learn more by visiting <https://coe.northeastern.edu/>



Fast Facts

e4usa course(s): e4usa+Programming

Institution course(s): CS 1990 Computer Science elective

Credits: 4

Placement: General elective credit

Credit pathway: AP Computer Science Principles exam

Details: Submit your AP Computer Science Principles exam score to Northeastern University. A score of 4 or higher is required to receive credit. AP credit will appear on your transcript.

Point of Contact: Northeastern University Admissions - [here](#)

Cost: \$0

Other: Students must matriculate at Northeastern University to earn CS1990 credit. AP exam score should be sent to Northeastern prior to actual enrollment.

e4usa + Programming aligns with AP® CSP. See this institution's opportunities [here](#)!

Purdue University, College of Engineering

About The College of Engineering at Purdue University

The Purdue College of Engineering consistently ranks in the top 10 of engineering schools by US News & World Report. With almost 500 faculty and over 11,000 undergraduate students from across the globe, Purdue Engineering offers a broad range of experiential learning programs to fit a wide array of student interests.

Purdue students choose from 17 engineering majors, and all engineering students are admitted to the First-Year Engineering Program. There are over 30 buildings on campus wholly or partially dedicated to engineering, and several makerspaces for student projects. The largest student-run career fair in the nation draws over 400 employers from across the country and contributes to our 97% placement rate within 6 months of graduation.

For more info, visit:

<https://www.purdue.edu/futureengineers/>



Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): ENGR 10301: Pre Engineering Experience

Credits: 1 credit, may be used for a prerequisite for ENGR 13000: Transforming Ideas into Innovations

Credit pathway: Credits granted for participation in e4usa upon admission to Purdue First Year Engineering

Details: Credit granted for participation in e4usa for students with a grade of B or higher

Point of Contact: Dr. Isabel Jimenez-Useche, ijimenez@purdue.edu

Cost: \$0

Other: Students must matriculate to Purdue University in the First Year Engineering major to earn credits.

e4usa + Programming aligns with AP® CSP. See this institution's opportunities [here](#)!

Purdue University

About the Purdue Polytechnic Institute @ Purdue University

The Purdue Polytechnic Institute (PPI) is one of the 10 academic colleges of Purdue University in West Lafayette, Indiana. The college fosters collaboration, and leverages innovative learning methods, real-world experiences and industry partnerships to produce graduates uniquely qualified for technology-driven careers.

There are more than 30 undergraduate degrees offered through the PPI, so students can choose an area of study that matches their hobbies and interests. These degrees cover areas such as:

- Engineering Technology Education
- Aviation
- Engineering Technologies
- Construction Management
- Technology Management
- Computing & Graphics



Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): TECH 12000: Design Thinking in Technology

Credits: Earn 3 credits in the university's core Science Technology & Society curriculum component. This course also serves as the first-year design course for most majors within the Purdue Polytechnic Institute. Additionally, TECH 12000 is one of three core courses for a Design and Innovation minor.

Credit pathway: Departmental Portfolio Review

Details: Open to students who have achieved a grade of B or better in their e4usa course (Legacy, Making, or Design). Qualifying students can submit their e4usa high school engineering design portfolio for review to demonstrate that they have met the course learning objectives. An additional student interview may be requested to further clarify their achievements.

Point of Contact: Dr. Scott Thorne (sthorne@purdue.edu)

Cost: \$30

Other: Students must matriculate to Purdue University to earn credits.

e4usa + Programming aligns with AP® CSP. See this institution's opportunities [here!](#)

Regent University

About Regent University

Regent's Engineering & Computer Science Department, with its highly marketable, innovative curriculum, equips students with the knowledge and skills employers seek. Named a National Center of Academic Excellence in Cyber Defense for the B.S. in Cybersecurity by the National Security Agency and the Department of Homeland Security, Regent's award-winning degree programs integrate leading-edge instruction with the exploration of ethical, spiritual and social responsibility.

Founded in 1978, Regent enrolls more than 13,000 students annually on its 70-acre campus in Virginia Beach, Virginia, and online around the world. Ranked among top national universities (U.S. News & World Report, 2022), degree programs are presented from a Christian worldview and help you develop credentials and character that set you apart and build your career.



Learn more at www.regent.edu/learnmore

Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): ENGR 201 Engineering Foundations 1

Credits: 3 Credit Hours

Credit pathway: Departmental Proficiency Exam consisting of:

1. An e4usa high school engineering design portfolio review.
2. A 30-minute written examination.

Point of Contact: Dr. Cheryl Beauchamp | cherbea@regent.edu

Cost: \$75

Other: Students must matriculate at Regent University to earn credits. To initiate the process, visit regent.edu/learnmore.

e4usa + Programming aligns with AP® CSP. See this institution's opportunities [here!](#)

South Mountain Community College

About South Mountain Community College

One of the ten schools in the Maricopa County Community College District, South Mountain Community College is located in Phoenix, Arizona. The Engineering program offers two pathways for Engineering students (AS for university transfer, and AAS for job placement for technicians who may decide to transfer to a university after working in industry), as well as Dual Enrollment opportunities with local high schools.



The Engineering AS transfer program focuses on Civil Engineering, Electrical Engineering, Industrial Engineering, Mechanical Engineering, and Engineering Technology. The AAS program focuses on Engineering Technology.

Learn more at:

<https://www.southmountaincc.edu/degrees-certificates/engineering>

Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): ECE 150 - Exploring Engineering and its Impact on Society

Credits: 3

Credit pathway: Transfers to university as a Humanities course (HU). Dual Enrollment transfers for college credit.

Details: Open for Engineering and non-Engineering students.

Point of Contact: Dr. Carl Whitesel (cwhitesel@southmountaincc.edu)

Cost: 3 credits tuition + low course consumables fee

Other: Students must matriculate to Arizona State University to earn transfer credits. Credits apply as HU credits for the SMCC programs.

e4usa + Programming aligns with AP® CSP. See this institution's opportunities [here!](#)

Tennessee State University

Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): e4usa students receive credit for ENGR 1020 Freshmen Engineering Seminar with a successful completion of the course.

Credits: ENGR 1020: 1 hr.

Credit pathway: dual credit

Details: Evaluation consists of 1) e4usa high school engineering design portfolio review and 2) 900 SAT (Verbal and Math Scores Only) and 19 ACT

Point of Contact: Dr. Catherine Armwood-Gordon (carmwood@Tnstate.edu)

Cost: \$0

Other: Other students may be reviewed/considered by our Continuing & Distance Education Office for possible credit.

e4usa + Programming aligns with AP® CSP. See this institution's opportunities [here!](#)



About Tennessee State University

Tennessee State University is a world-class university known for academic excellence, incredible students, inspiring faculty, exceptional value and an amazing campus and community. For more than half a century, the College of Engineering at Tennessee State University has provided a quality education in engineering, technology, and computer science with a mission to increase the diversity of tomorrow's technical workforce.

The College of Engineering offers full-time undergraduate programs leading to the Bachelor of Science degree in the fields of:

- Applied & Industrial Technologies
- Architectural Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Mechanical Engineering

Learn more by visiting: <https://www.tnstate.edu/engineering/index.aspx>

The College of New Jersey

Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): TST161: Creative Design - Engineering For US All

Credits: 4 credits

Credit pathway: Dual Enrollment

Details: Credit granted for participation in e4USA course for students earning a C or higher, taking the course in 11th grade or later

Point of Contact: Manuel Figueroa
(manuel.figueroa@tcnj.edu)

Cost: \$550

Other: To apply for admission to TCNJ, visit:
<https://admissions.tcnj.edu/apply/>



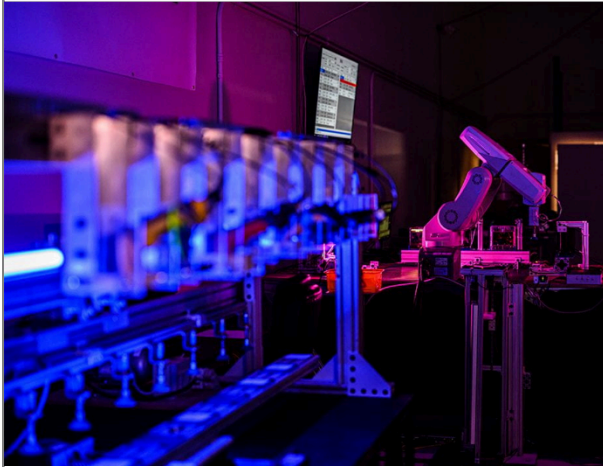
About The College of New Jersey

TCNJ's School of Engineering students are a high-achieving group of creative thinkers and problem-solvers with the drive, passion, and intellect to revolutionize the world around us. Here, engineering talents and interests are developed in a rigorous curriculum and supported by a faculty of teacher-scholars to launch a new generation of industry breakthroughs, meaningful change, and impactful citizenship.

The School of Engineering offers full-time undergraduate programs that lead to Bachelor of Science degrees in the fields of:

Biomedical Engineering	Engineering Science
Civil Engineering	Integrative STEM Education
Computer Engineering	Mechanical Engineering
Electrical Engineering	Technology & Engineering Education

The University of Memphis



About Herff College of Engineering at The University of Memphis

Imagine a college that impacts the quality of life around the world. That is what we do at the Herff College of Engineering. We impact our region, our country and our world in a wealth of ways including healthcare improvements, clean drinking water, medical devices, electricity generation/smart grid technologies, earthquake-safe structures, transportation and logistics, additive manufacturing, and even tissue regeneration. In addition to improving lives around the globe, we also impact the individual lives of our students by preparing them for successful and rewarding careers.

Learn more by visiting:
<https://www.memphis.edu/herff/>

Fast Facts

e4usa course(s): e4usa+Making

Institution course(s): BIOM 1701 Introduction to Biomedical Engineering Design

Credits: 1 credit hour

Credit pathway: Biomedical Engineering

Details: Credit granted for participation in e4usa for students with a grade of C- or better.

Point of Contact: Herff College of Engineering Academic Advising
(engineeringadvising@memphis.edu)

Cost: No additional cost for credit in BIOM 1701.

Other: Students must matriculate to University of Memphis and declare a major in Biomedical Engineering.

e4usa course(s): e4usa+Design

Institution course(s): EECE 1208 Intro EECE Lab

Credits: 1 credit hour

Credit pathway: Electrical Engineering or Computer Engineering

Details: The e4usa portfolio will be reviewed by the department. The portfolio must demonstrate usage of digital hardware and software in the design process. Upon approval by the department, credit will be granted for students with a grade of C- or better.

Point of Contact: Herff College of Engineering Academic Advising
(engineeringadvising@memphis.edu)

Cost: No additional cost for credit in EECE 1208.

Other: Students must matriculate to University of Memphis and declare a major in Electrical Engineering or Computer Engineering.

Towson University

About Towson University

Towson University (TU) is the third-largest university in the prestigious University System of Maryland. Its mission is to prepare “effective leaders for the public good.” TU boasts small classes, faculty committed to mentorship and student success, and opportunities for undergraduate research, ensuring that students don’t get lost in the crowd.

All undergraduate students at TU must complete the university’s Core Curriculum to fulfill general education requirements. EPHY 155 Engineering Design for Society is designated as a Core 4 Creativity and Creative Development course. Students pursuing numerous undergraduate degrees at TU, such as physics, computer science, STEM education, and business, benefit from gaining experience in engineering design. In addition to these programs, TU has a dual degree engineering program in partnership with the University of Maryland at College Park.



Fast Facts

e4usa Course(s): e4usa Legacy, e4usa + Design

TU Course: EPHY 155 Engineering Design for Society

Credits: Earn 3 credits that count towards the university's Core Curriculum. This course also serves as the pre-requisite for EPHY 373 Engineering Design in Physics.

Credit pathway: Departmental Portfolio and Statement Review

Details: Open to students who have achieved a grade of B or better in their e4usa course and who submit the following to the point of contact: (a) their e4usa high school engineering design portfolio and (b) a 500-word (maximum) statement of contribution summarizing their individual contributions to the portfolio and associated design project. An additional student interview may be requested to further clarify the student’s achievements and individual contributions to the portfolio.

Point of Contact: Dr. Pamela Lottero-Perdue (plottero@towson.edu)

Cost: \$90

Other: Students must matriculate to Towson University to earn credits.

University of Hawai‘i at Mānoa

About University of Hawai‘i at Mānoa College of Engineering

Established in 1907, the University of Hawai‘i at Mānoa is the largest and oldest of the 10 UH campuses. Mānoa offers hundreds of undergraduate, graduate and professional degrees; a strong, vital research program; and nationally ranked NCAA Division I athletics. UH Mānoa is a R1 research university of international standings.

The College of Engineering at UH Mānoa is “dedicated to world-class education and research. We produce the entrepreneurial and innovative human and intellectual capital required to be competitive in an increasingly technological and global society. Through our graduates and our research, we provide people and discoveries to transform lives and to support vibrant, knowledge-based economies. We are inspired by the principles of sustainability and resilience, flavored by our unique island environment.”

- Civil, Environmental, and Construction Engineering
- Electrical & Computer Engineering
- Mechanical Engineering



Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): ENGR 196 Freshman Vertically Integrated Project

Credits: Variable, 1-3 credits, based on thoroughness and complexity

Credit pathway: Concurrent enrollment or upon matriculation to College

Details: Students interested in earning credits MUST sign up for this course while taking the e4usa course at their respective high school. Upon payment for the UHM CoE course and submission of a report for the e4usa course to the high school instructor, the grade submitted by the high school instructor will be transmitted to the point of contact in the College for official grade submission.

Point of Contact: Song K Choi, PhD (schoi@hawaii.edu)

Cost: Standard tuition and fees, and possible ways to offset the costs will be explored

Other: State and College scholarships may be available for e4usa programs

e4usa + Programming aligns with AP® CSP. See this institution’s opportunities [here!](#)

The University of Indianapolis

About The University of Indianapolis

We believe the R. B. Annis School of Engineering at UIndy is one of the most innovative engineering programs nationwide. Our faculty members embody an attitude of service to our students and partners. We work with our students in our DesignSpine program to ensure that our students are involved in authentic, industry-driven engineering projects from the beginning of their program.

- Computer Engineering
- Electrical Engineering
- Industrial and Systems Engineering
- Mechanical Engineering
- Software Engineering
- Computer Science
- General Engineering

Learn more at:

<https://www.uindy.edu/cas/engineering/>



Fast Facts

e4usa course(s): e4usa Legacy, e4usa + Making, e4usa + Design, e4usa + Programming

Institution course(s): ENGR 199 - Pre Engineering Experience

Credits: 1 credit for each e4usa course, up to 4 if students have other experience

Credit pathway: Credit granted for participation in e4usa upon admission

Details: Credit granted for participation in any e4usa course for students with a grade of B or better, taking the course in 10th grade or later.

Point of Contact: Dr. Kenneth Reid, Associate Dean of Engineering (reidk@uindy.edu)

Cost: No additional cost for credit in ENGR 199

Other: Scholarships available for e4usa participants: see

[Engineering for US All - University of Indianapolis \(uindy.edu\)](https://www.uindy.edu/cas/engineering/) for details

e4usa + Programming aligns with AP[®] CSP. See this institution's opportunities [here](#)!

University of Louisville

About the JB Speed School of Engineering

The mission of the J.B. Speed School of Engineering is to serve the University, the Commonwealth of Kentucky, and the engineering profession by providing high-quality educational programs to all students; engaging in research and scholarship that will extend knowledge; and assisting the economic development of the regional, state, and national economies through technology transfer.

Engineering students should graduate with knowledge of engineering sciences and design, experience working in teams, have strong written and oral communication skills, and be well-versed on the impact of solutions in a global, economic, environmental, and social context. In particular, engineers have a duty to society to understand and abide by their discipline's Codes of Ethics.



Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): ENGR 165 - General Engineering Credit

Credits: 2 credits

Credit pathway: Departmental Proficiency Evaluation

Details: Proficiency Evaluation consists of review of e4usa high school engineering design portfolio.

Point of Contact: Dr. Erin Gerber (e.gerber@louisville.edu)

Cost: \$0

Other: Students must matriculate at University of Louisville's JB Speed School of Engineering to earn credits. To initiate the process, discuss with your Academic Advisor or Point of Contact listed above.

e4usa + Programming aligns with AP® CSP. See this institution's opportunities [here!](#)

University of Maryland, Baltimore County

About UMBC

University of Maryland Baltimore County (UMBC) is a top-ranked university that connects innovative teaching and learning, research across disciplines, and civic engagement. Whatever your passion, at UMBC you'll find a program that challenges and excites you and a community that supports you.

The College of Engineering and Information Technology offers full-time undergraduate programs in:

- Chemical Engineering
- Computer Engineering
- Mechanical Engineering
- Information Systems
- Computer Science.

All engineering and computer science programs are ABET accredited.

Learn more by visiting:

<https://coeit.umbc.edu/programs-degrees/>



Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): ECEP 104: Discovering the Engineering World

Credits: 3 General Education Program Credits (TBD)

Credit pathway: Credit granted for participation in e4usa upon admission to the college

Details:

- Earn a 2.5 or above in first semester at UMBC
- Earn a 3.0 or better average for e4usa classes in Pre-College
- Meet with Dr. Maria Sanchez when you are ready to submit an electronic copy of your e4usa portfolio

Point of Contact: Dr. Maria Sanchez (msanchez@umbc.edu)

Cost: Please check UMBC up to date tuition rates: <https://sbs.umbc.edu/tuition-info/>

Other: For more information about UMBC visit: <https://umbc.edu/>

e4usa + Programming aligns with AP[®] CSP. See this institution's opportunities [here!](#)

University of Maryland, College Park

About University of Maryland

Located nine miles from the Nation's Capital, The University of Maryland is the Flagship Institution of the State of Maryland.

The A. James Clark School of Engineering offers full-time undergraduate programs leading to the Bachelor of Science degree in the fields of:

- Aerospace Engineering
- Biocomputational Engineering
- Bioengineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Fire Protection Engineering
- Materials Science and Engineering
- Mechanical Engineering

Learn more by visiting

<https://eng.umd.edu/prospective-students>



Fast Facts

e4usa course(s): e4usa Legacy OR e4usa + Design

Institution course(s): ENES 192: Engineering For US All

Credits: 3 in General Education Scholarship in Practice (DSSP)

Credit pathway: Departmental Proficiency Exam

Details: Proficiency Exam consists of 1) e4usa high school engineering design portfolio review and 2) a short written examination.

Point of Contact: Kevin Calabro (kcalabro@umd.edu)

Cost: \$30

Other: Students must matriculate at University of Maryland to earn ENES192: Engineering for US All credit. To initiate the process download the Credit By Exam form at <https://ltsc.umd.edu/forms>. Students who receive ENES192 credit may complete ENES193: Engineering Design Principles and Practices (1 credit) to satisfy the in-major engineering degree requirement for ENES100: Introduction to Engineering Design (3 credits).

e4usa + Programming aligns with AP® CSP. See this institution's opportunities [here](#)!

University of New Mexico School of Engineering

About Engineering at UNM

Enrollment: 2267 undergraduate, 764 graduate students

One of only 80 engineering programs in the US to receive the ASEE Bronze Award for Diversity

An R1 (high research activity) university and a Hispanic-Serving Institution

Many opportunities for undergraduate research experiences

Over \$44M in annual research expenditures

Centers of Excellence include:

- COSMIAC
- Manufacturing Training and Technology Center
- Center for Water and the Environment
- Center for High Technology Materials
- Center for Advanced Research Computing
- Center for Microengineered Materials



Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): ENGR 195

Credits: 3 semester credit hours of general university credit

Credit pathway: Dual enrollment credit

Details: Enrollment in an e4usa-affiliated high school course

Point of Contact: Shuang (Sean) Luan, sluan@unm.edu

Cost: Free to New Mexico students

e4usa + Programming aligns with AP® CSP. See this institution's opportunities [here](#)!

University of Oklahoma - Norman Campus

About University of Oklahoma

The University of Oklahoma in Norman, OK welcomes students to a campus and community life large enough to be full of opportunity and fun, and small enough to feel at home.

The Gallogly College of Engineering recently launched the Engineering Pathways program focused on nurturing and supporting students as they pursue full-time undergraduate programs in the fields of:

- Engineering:
 - Aerospace, Analytics, Architectural, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Industrial & Systems, Mechanical
- Science:
 - Computer, Environmental, and Engineering Physics

The College also offers certificates in Engineering Leadership and Data Science, along with several minors.



Fast Facts

e4usa course(s): e4usa Legacy, e4usa + Making, e4usa + Design

Placement: Engineering Design in Action (ENGR 1421) + Core V gen ed

Credit pathway: Report e4usa completion at initial advising appointment, provide documentation upon request

Details: Upon request submit details and high school transcript showing B or better for e4usa, e4usa+Making, or e4usa+Design

Point of Contact: Oliver Vellmann, Student Program Coordinator, Eng Pathways, fyep@ou.edu

Cost: Free

Other: Must matriculate to Gallogly College of Engineering at University of Oklahoma- Norman Campus. For more information see: <https://www.ou.edu/coe/explore/futurestudents> and <https://www.ou.edu/coe/academics/pathways/first-year>

Virginia Tech

About Virginia Tech

Located in Blacksburg, VA, next to the Jefferson National Forest, Virginia Tech (VT) has been providing degrees in engineering since 1872. VT is one of largest producers of engineering graduates in the nation and has consistently ranks in the top 20 of engineering schools by US News & World Report.

VT students can earn BS degrees in 14 areas of engineering and computer science including: Aerospace Engineering, Biological Systems Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science, Construction Engineering Management, Electrical Engineering, Industrial & Systems Engineering, Materials Science & Engineering, Mechanical Engineering, Mining & Minerals Engineering, and Ocean Engineering.

For more information visit: <https://eng.vt.edu/>



Fast Facts

e4usa course(s): e4usa+Programming

Institution course(s): CS 1014: Introduction to Computational Thinking

Credits: 3

Credit pathway: AP® Computer Science Principles exam

Details: Submit your AP® Computer Science Principles exam score to Virginia Tech University. A score of 3 or higher is required to receive credit. AP® credit will appear on your transcript.

Point of Contact: College of Engineering Academic Affairs (coeacademicdean@vt.edu)

Cost: Free

Other: Students must be admitted to Virginia Tech to earn credits. To apply for admission to Virginia Tech, visit <https://vt.edu/admissions/undergraduate/apply.html>.

e4usa + Programming aligns with AP® CSP. See this institution's opportunities [here](#)!

West Virginia University

Fast Facts

e4usa course(s): e4usa Legacy

Institution course(s): ENGR 101: Engineering Problem Solving I

Credits: 2 credits towards a degree requirement for all Statler College Majors

Credit pathway: Departmental Proficiency Exam

Details: High school transcript must show B or better for e4usa. Qualifying students will then submit their e4usa high school engineering design portfolio for review to ensure course learning objectives were met.

Proficiency Exam consists of 1) e4usa high school engineering design portfolio review and 2) a Microsoft Excel examination

Point of Contact: Lizzie Santiago
(Lizzie.Santiago@mail.wvu.edu) or Carter Hulcher
(chulcher@mail.wvu.edu)

Cost: \$0

Other: Students must matriculate at West Virginia University to earn credits. To initiate the process, discuss with your Academic Advisor or a Point of Contact listed above. To apply to WVU, visit <https://admissions.wvu.edu/how-to-apply>

e4usa + Programming aligns with AP® CSP. See this institution's opportunities [here!](#)



About West Virginia University

West Virginia University (WVU), founded in 1867, is an R1: Doctoral University providing instruction to a student body from 90 nations, 50 U.S. states, and all 55 West Virginia counties and offering more than 300 academic programs. WVU is dedicated to its mission to leverage talents and resources to create a better future for West Virginia and the world.

The WVU Morgantown campus is in a town named “No. 1 Small City in America” by BizJournals.com for its exceptional quality of life. Morgantown, population 30,855, was also rated the ninth-best college town in America by Business Insider and is within easy traveling distance of Washington, D.C., to the east, Pittsburgh, Pa., to the north, and Cleveland and Columbus, Ohio, to the northwest.

The Benjamin M. Statler College of Engineering and Mineral Resources has sixteen undergraduate programs in the areas of Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science, Cybersecurity, Electrical Engineering, Engineering Technology, Environmental Engineering, Industrial Engineering, Mechanical Engineering, Mining Engineering, Petroleum and Natural Gas Engineering, and Robotics Engineering.

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[e4usa Credit and Placement Team](#)

Email us with questions related to college credit.



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