

COLLEGE OF ENGINEERING

Bachelor of
Science in

ENGINEERING INNOVATION AND LEADERSHIP

AN ENGINEERING MAJOR
BUILT AROUND YOUR GOALS



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AN ENGINEERING MAJOR FOR *YOU*

The B.S. in Engineering Innovation & Leadership ("E-Lead") graduates students with an ABET accredited engineering degree that provides a strong, multi-disciplinary foundation in engineering while developing leadership, innovation, and business skills.

PROGRAM THEMES

- Year 1: Self Identity and Intrinsic Motivation
- Year 2: Engineering Tools and Communication
- Year 3: Innovation and Entrepreneurship
- Year 4: Multidisciplinary Client-Based Project



E-Lead teaches you how to be a business-minded, innovative engineer and leader, a professional who can help create a better society.

**"WE ARE LEADING
THE WORLD IN
INNOVATIVE
ENGINEERING
EDUCATION"**

LISTEN TO OUR DEPARTMENT CHAIR'S TEDx
TALK ON HOW ACCESS MAKES A DIFFERENCE



Roger Gonzalez, Ph.D., P.E., F.ASME, F. AIMBE
Department Chair and Professor



Our graduates transition from UTEP to **successful careers** in the most cutting-edge, exciting engineering and technology companies in the US and abroad, working to provide engineering combined with business acumen in innovative industries **across the globe.**



In E-Lead, you will develop CHARACTER (who you are), COMPETENCE (what you know), and CAPACITY (what you achieve). You will learn how to apply the Five Practices of Exemplary Leadership to lead people and projects, create better solutions, and become a more effective, innovative engineer.



Engineering Innovation and Leadership is an ABET-accredited Engineering degree, with the unique option for students to choose and create their own paths. Students choose one of seven different concentrations to dive deeply into a traditional engineering area.

Business knowledge, leadership ability, an engineering Concentration, and an... engineers, no matter where their careers take them. **Well-rounded engineers sol**

Innovation is a passion E-Lead incorporates into its class... think critically and to create out-of-the-box solutions. Our... world of



EMPHASIS COURSES: CHOOSE UP TO 15 HOURS OF COURSES YOU ARE PASSIONATE ABOUT, INSIDE OR OUTSIDE THE CLASSROOM.



Engineering Innovation



Biomedical Engineering



Civil Engineering



Computer Science

CONCENTRATIONS

... through projects and assignments that help students to
 ... graduates can see past a textbook and innovate for the
 ... of today.



HOURS OF ELECTIVES IN AN AREA YOU ARE
 OR OUTSIDE OF ENGINEERING.

- 
 Computer
 Science
- 
 Electrical
 Engineering
- 
 Mechanical
 Engineering
- 
 Metallurgy &
 Materials

CONCENTRATIONS

Emphasis area combine to make our graduates more innovative and effective
 solve more—and more challenging—problems, and change the world for the better.

The E-Lead curriculum gives students an understanding of key areas of business so that they can understand engineering within business constraints and are prepared to be entrepreneurial leaders in the tech world. E-Lead graduates recognize the importance of applying business principles and practices to their engineering work and design.



Alongside these engineering Concentrations, students also choose a complementary area of Emphasis of up to five elective courses. These Emphasis courses can be taken outside engineering in almost any UTEP major or within engineering to focus even more deeply on technical engineering skills.

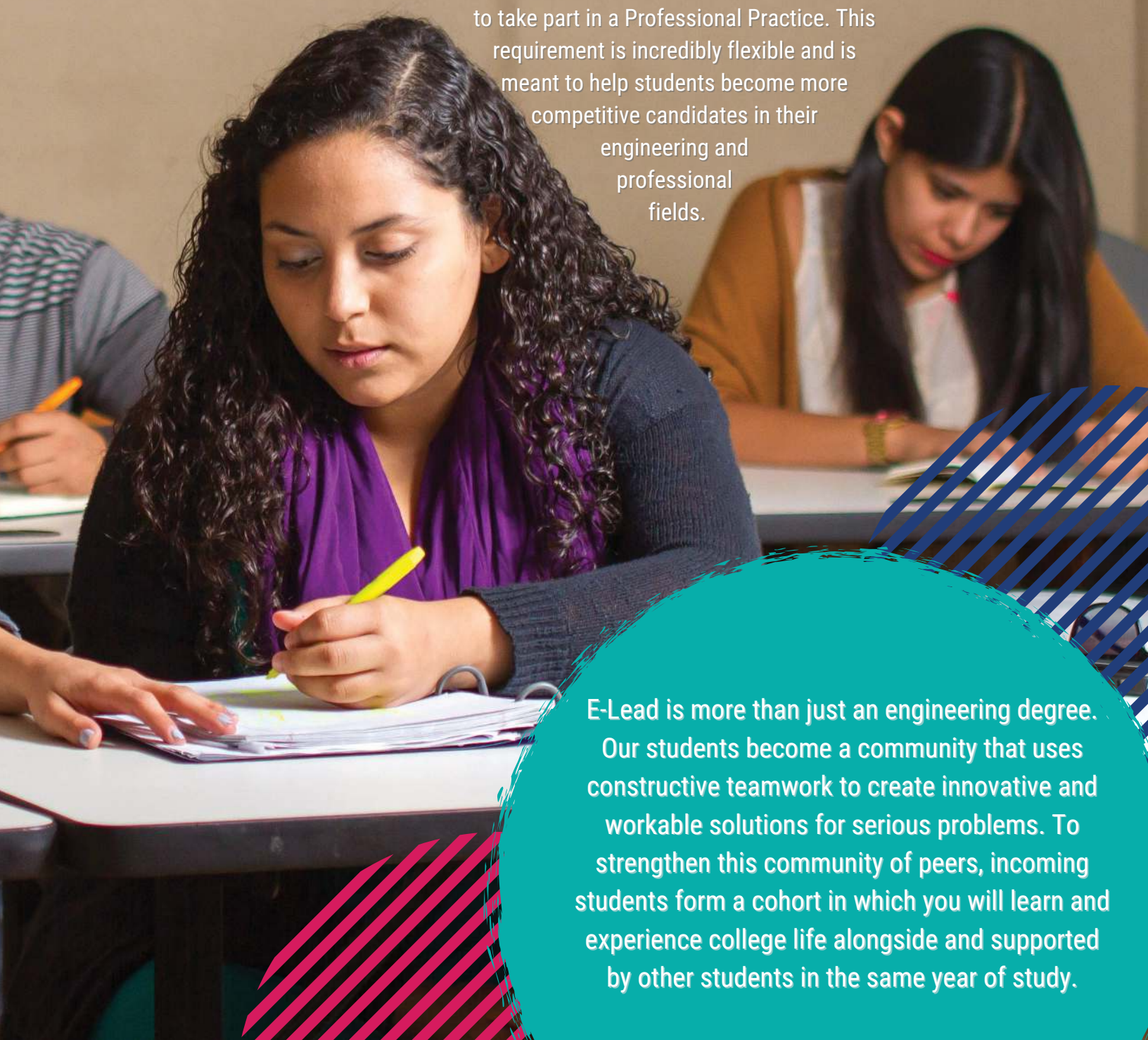


Having a cohort created an open and collaborative environment that focuses on *everyone succeeding*.



Elijah Riefenberg, 2018 Cohort

In the E-Lead culture of community, we believe in getting to know one another beyond the superficial, not only to create better relationships with our peers and professors, but to better your networking skills. E-Lead professors reach out to students when possible to help with career opportunities, and our degree requires students to take part in a Professional Practice. This requirement is incredibly flexible and is meant to help students become more competitive candidates in their engineering and professional fields.



E-Lead is more than just an engineering degree. Our students become a community that uses constructive teamwork to create innovative and workable solutions for serious problems. To strengthen this community of peers, incoming students form a cohort in which you will learn and experience college life alongside and supported by other students in the same year of study.

WHERE

WILL YOU GO

WITH E-LEAD?



Celena Arreola is a graduate of the first E-Lead class. Now, she works as an Environmental Engineer at the El Paso Electric Company. She is responsible for the organization and monitoring of various system units and the review and creation of status reports that consist of data at the federal level.

Graduated in 2018, Pablo Servin now works as a Project Engineer at Lockheed Martin, one of the largest engineering companies in the nation. Working as the representative for his team, Pablo helps coordinate all contractual actions that take a project from start to end.



A 2020 graduate, Brittany Rodriguez is furthering her studies in higher education as a Ph.D. student at the University of Pittsburgh. She is working for her Doctorate in Bioengineering and Biomedical Engineering and plans to graduate in 2025.

Yazmin Montoya is a 2017 E-Lead graduate who now works as a contract administrator for the largest publicly traded copper company in the world. At Freeport-McMoRan, Yazmin manages contracts for projects and created a contractor scorecard to manage and measure the relationship between FMI and the top tier North American contractors.



BE A PART OF SOMETHING **BIGGER**

The world **needs** engineers who are able to adapt to and see changes coming, and **who are ready to face the challenges of the future**. Employers demand engineers who can bring more to the table than knowledge of a single, narrow engineering field. **E-Lead meets this demand** by educating engineers who think creatively and scientifically, who see the bigger picture, and who can lead people, projects, and organizations to produce beneficial change.

E-Lead enables you to develop a broader set of skills to meet the challenges of a diverse world. We don't limit your opportunities. We help you expand them.

We are Innovating the Future, One Engineer at a Time. We Are E-Lead.



CONTACT US TODAY AND START YOUR E-LEAD JOURNEY!



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