AS Engineering Technology

The Engineering Technology program at Las Positas College is designed for those who want a hands-on engineering career with a focus on mechanical technology in an applied setting. The emphasis is on Mechanical Engineering applications and developing an understanding of how engineering, technology and manufacturing principles are applied in practice. The program provides students with foundational knowledge in mathematics, critical thinking, problem solving, and engineering design, as well as skills in manufacturing, fabrication, and welding so that students are able to adapt to the ever-changing modern industrial workplace. Graduates of the program may assume employment as mechanical technicians, mechanical technologists, stationary engineers, or in other applied engineering fields and collaborate with scientists, engineers, designers and manufacturing professionals. Students may also choose to continue their education towards a degree in a related engineering discipline.

SEMESTER 1 - FALL

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
ENGR 10 (Introduction to Engineering)	2	Eligibility for ENG 1A or ENG 52A (Strongly Recommended)	Fall & Spring
WLDT 79 (Manufacturing Processes)	2		Fall
MATH 55 (Intermediate Algebra) (AUG - NOV)	5	MATH 65 or MATH 65B (Pre-Requisite)	Fall, Spring & Summer
MATH 39 (Trigonometry) (NOV - FEB)	4	MATH 55 or 55B or 55Y (Pre-Requisite)	Fall, Spring & Summer
General Education Course (Kinesiology)	1		Fall, Spring & Summer
SEMESTER TOTAL	**14**		

SEMESTER 2 - SPRING

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
MATH 20 (Pre-Calculus Mathematics)	5	MATH 39 (Pre-Requisite)	Fall, Spring & Summer
ENGR 22 (Engineering Design Graphics)	3	MATH 39 and ENG 1A (Strongly Recommended)	Fall & Spring
ENG 1A (Critical Reading and Composition)	3	ENG 104 or ENG 105 with a “Pass” or ESL 25 or equiv course or appropriate skill level demonstrated through the Eng assessment process (Pre-Requisite)	Fall, Spring & Summer
General Education Course (Social and Behavioral Science)	3		Fall, Spring & Summer
SEMESTER TOTAL	**14**		

SEMESTER 3 - SUMMER

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
INTN 1 (Intership Seminar)	1		Fall, Spring & Summer
INTN 2 (Intership Field Placement)	3		Fall, Spring & Summer
SEMESTER TOTAL	**4**		

SEMESTER 4 - FALL

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
PHYS 2A (Introduction to Physics I)	4	MATH 20, MATH 38 OR MATH 39 (Pre-Requisite)	Fall
WLDT 62A (Beginning TIG, MIG Welding, and Bluepring Reading Theory)	1	WLDT 62AL or WLDT 62BL (Co-Requisite)	Fall
WLDT 62AL (Beginning TIG, MIG Welding and Blueprint Reading Skills)	2	WLDT 62A or WLDT 62B (Co-Requisite)	Fall & Spring
General Education Course (Humanities/American Cultures)	3		Fall, Spring & Summer
Elective Course (AA-Degree Applicable)	3		Fall, Spring & Summer
SEMESTER TOTAL	**13**		

SEMESTER 5 - SPRING

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
ENGR 37 (Applied Statics and Materials)	3	MATH 39 (Pre-Requisite)	Fall & Spring
WLDT 63 (Welding Layout & Fitting)	2	WLDT 626BL (Pre-Requisite)	Spring
SPCH 1 (Fundamentals of Speech Communication)	3	Eligibility for ENG 1A (Strongly Recommended)	Fall, Spring & Summer
Elective Course (AA-Degree Applicable)	3		Fall, Spring & Summer
Elective Course (AA-Degree Applicable)	3		Fall, Spring & Summer
Elective Course (AA-Degree Applicable)	1		Fall, Spring & Summer
SEMESTER TOTAL	**15**		
Total Major Coursework	**28**		
Total Units Required (Minimum)	**60**		

NOTE: The AS Degree in Engineering Technology at LPC is NOT intended for students seeking transfer.

Last Updated: 12/15/16