

EASA

ENGINEERING AND AEROSPACE SCIENCES ACADEMY

Overview

McMinnville School District has partnered with education, business, and industry from around the northwest to develop this career and college driven program. **EASA** is a hands-on, intensive program that will put students a step ahead in readiness for higher education and careers in engineering, technology, and science. The curriculum offers an integrated set of core academics with engineering and technical skills and hands-on applications to provide students with broadly transferable skills and knowledge in the areas of creative and practical problem solving. As part of the program, industry mentors are invited into the classroom as guest speakers and to work directly with students on projects like the International Space Station Nanolab and the FIRST Robotics Competition team. Additionally, EASA has partnered with Portland Community College to provide students with an option of a concurrent enrollment model which offers high school and college credit as well as transfer options to four-year programs.



ENGINEERING CONTACTS		
Pathway Teachers	Juanita Clarno (lead teacher)	(503) 565.5772 jclarno@msd.k12.or.us
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PATHWAY ENDORSEMENT OFFERINGS IN ENGINEERING			
Required Classes	Grade	MHS Credits	College Credits
2.5 credits from the following			
Intro to Engineering Design	9	1.0	3
Engineering Projects 1	9	1.0	
Principles of Engineering	10	1.0	
Engineering Projects 2	10	1.0	
Digital Electronics	11-12	1.0	
Engineering Projects 3	11-12	1.0	
Engineering Design & Dev.	11-12	1.0	
Aerospace Engineering	11-12	1.0	
EASA Scholar status is awarded to seniors completing 8 or more credits <u>with a grade of C or better</u> from the required Pathway courses listed above.			

ENGINEERING TRANSFER PROGRAM TO OREGON STATE UNIVERSITY FROM CHEMEKETA COMMUNITY COLLEGE

Mechanical Engineering			
Term	Course	Title	Credit Hours
1	GE101	Engineering Orientation	3
	BI101	General Biology	4
	MTH251	Differential Calculus	5
	CH201	General Chemistry	4
	Social Sciences Course		4
2	GE102	Engineering Computations	3
	WR121	English Composition-Exposition	3
	EGR248	Graphics and 3-D Modeling	3
	MTH252	Integral Calculus	5
	CH202	General Chemistry	4
3	GE103	Engineering Computations	3
	MTH253	Series Calculus and Linear Algebra	4
	HPE295	Health and Fitness for Life	3
	COMM111	Fundamentals of Public Speaking	3
	WR227	Technical Writing	3
4	EGR211	Statics	4
	EGR201	Electrical Fundamentals 1	4
	MTH254	Vector Calculus 1	4
	PH211	Physics for Engineers and Scientists	5
	Social Sciences Course		4
5	EGR202	Electrical Fundamentals 2	4
	EGR212	Dynamics	4
	PH212	Physics for Engineers and Scientists	5
	Arts and Letters elective		4
	Social Sciences Course		4
6	EGR213	Strength of Materials	4
	MTH256	Applied Differential Equations	4
	PH213	Physics for Engineers and Scientists	5
	EGR214	Introduction to Statistics for Engineers	3
	Social Sciences Course		4

Courses in bold are the courses taught at McMinnville High School in either College Credit Now or Advanced Placement.