

GRADUATE PATHWAY PROGRAMS—ENGINEERING

Industrial Engineering	DEGREE PROGRAM COMPONENTS			PROGRAM INFORMATION		
	FALL TERM	COURSE TITLE	CREDIT HOURS			
Pathway Entry Requirements <ul style="list-style-type: none"> 4-year undergraduate degree in engineering Satisfactory completion of a 4-year undergraduate degree in an appropriate subject with a 2.75 GPA or equivalent overall and a minimum of 2.75 GPA for the final year of study Language Proficiency: <ul style="list-style-type: none"> TOEFL 70 iBT (525 PBT) IELTS 6.0 Password overall Level 7 Completion of Academic English Level 5 with no grades below C and a Pass grade in all Pass/No Pass courses 	<ul style="list-style-type: none"> 45 credit hour program 12 credit hours apply from Pathway 33 credit hours remaining toward degree 			PROGRAM INFORMATION Students may choose from the focus areas of Human Systems Engineering, Information Systems Engineering, Manufacturing Systems Engineering, or Nano/Micro-Fabrication.		
	ALS 161	Academic Listening and Speaking	3			
	ALS 162	Academic Reading and Writing	3			
	IE 512	Information Systems Engineering	4			
	ST 314	Introduction to Statistics for Engineers	3			
	ENGR 199	INTO OSU Engineering Success	2			
	Total				15	
	WINTER TERM				Start Date <ul style="list-style-type: none"> Fall term: September 23, 2013 Progression Requirements <ul style="list-style-type: none"> A combined minimum cumulative GPA of 3.0 in the Pathway program and in the last year of the undergraduate degree A grade of B or higher in all English language classes in the Pathway or TOEFL 91 iBT with minimum subscores of 18 (575 PBT) A grade of C or higher in all Pathway classes Graduate Record Examination (GRE) minimum overall score of 1100 (301 revised) with a minimum score of 400 (146 revised) in the verbal section 	
	COMM 111	Public Speaking	3			
	WR 121	English Composition	3			
	ALS 181	English Composition ESL Bridge	2			
	ST 511	Methods of Data Analysis	4			
	IE 515	Simulation and Decision Support Systems	4			
		GRE Prep	0			
	Total					16
	SPRING TERM					
WR 327	Technical Writing	3				
CS 151	Introduction to Programming I	4				
MTH 341	Linear Algebra I	3				
ENGR 390	Engineering Economy	3				
Total			13			

Construction and Engineering Management	DEGREE PROGRAM COMPONENTS			PROGRAM INFORMATION		
	FALL TERM	COURSE TITLE	CREDIT HOURS			
Pathway Entry Requirements <ul style="list-style-type: none"> 4-year undergraduate degree in engineering Satisfactory completion of a 4-year undergraduate degree in an appropriate subject with a 2.75 GPA or equivalent overall and a minimum of 2.75 GPA for the final year of study Language Proficiency: <ul style="list-style-type: none"> TOEFL 70 iBT (525 PBT) IELTS 6.0 Password overall Level 7 Completion of Academic English Level 5 with no grades below C and a Pass grade in all Pass/No Pass courses 	<ul style="list-style-type: none"> 45 credit hour program 4 credit hours apply from Pathway 41 credit hours remaining toward degree 			PROGRAM INFORMATION Students who complete the CEM degree program receive specialized training in construction and management and will be awarded a MEng degree in Civil Engineering.		
	ALS 161	Academic Listening and Speaking	3			
	ALS 162	Academic Reading and Writing	3			
	ENGR 350	Sustainable Engineering	4			
	ENGR 321	Materials Science	4			
	ENGR 199	INTO OSU Engineering Success	2			
	Total				16	
	WINTER TERM				Start Date <ul style="list-style-type: none"> Fall term: September 23, 2013 Progression Requirements <ul style="list-style-type: none"> A combined minimum cumulative GPA of 3.0 in the Pathway program and in the last year of the undergraduate degree A grade of B or higher in all English language classes in the Pathway or TOEFL 91 iBT with minimum subscores of 18 (575 PBT) A grade of C or higher in all Pathway classes Graduate Record Examination (GRE) minimum overall score of 1100 (301 revised) with a minimum score of 400 (146 revised) in the verbal section 	
	COMM 111	Public Speaking	3			
	WR 121	English Composition	3			
	ALS 181	English Composition ESL Bridge	2			
	CE 372	Geotechnical Engineering	4			
	CEM 311	Hydraulics	4			
		GRE Prep	0			
	Total					16
	SPRING TERM					
WR 327	Technical Writing	3				
ST 314	Introduction to Statistics for Engineers	4				
CEM 341	Construction Estimating I	4				
ENGR 390	Engineering Economy	3				
Total			14			

GRADUATE PATHWAY PROGRAMS—ENGINEERING

Mechanical Engineering	DEGREE PROGRAM COMPONENTS			PROGRAM INFORMATION		
	FALL TERM	COURSE TITLE	CREDIT HOURS			
Pathway Entry Requirements <ul style="list-style-type: none"> 4-year undergraduate degree in engineering Satisfactory completion of a 4-year undergraduate degree in an appropriate subject with a 2.75 GPA or equivalent overall and a minimum of 2.75 GPA for the final year of study Language Proficiency: <ul style="list-style-type: none"> TOEFL 70 iBT (525 PBT) IELTS 6.0 Password overall Level 7 Completion of Academic English Level 5 with no grades below C and a Pass grade in all Pass/No Pass courses 	<ul style="list-style-type: none"> 45 credit hour program 7 credit hours apply from Pathway 38 credit hours remaining toward degree 			PROGRAM INFORMATION Students who complete the Mechanical Engineering degree program receive specialized training in mechanical engineering and will be awarded a MEng degree in Mechanical Engineering.		
	ALS 161	Academic Listening and Speaking	3			
	ALS 162	Academic Reading and Writing	3			
	ME 316	Mechanics of Materials	3			
	ENGR 321	Materials Science	4			
	ENGR 199	INTO OSU Engineering Success	2			
	Total				15	
	WINTER TERM				Start Date <ul style="list-style-type: none"> Fall term: September 23, 2013 Progression Requirements <ul style="list-style-type: none"> A combined minimum cumulative GPA of 3.0 in the Pathway program and in the last year of the undergraduate degree A grade of B or higher in all English language classes in the Pathway or TOEFL 91 iBT with minimum subscores of 18 (575 PBT) A grade of C or higher in all Pathway classes Graduate Record Examination (GRE) minimum overall score of 1100 (301 revised) with a minimum score of 400 (146 revised) in the verbal section 	
	COMM 111	Public Speaking	3			
	WR 121	English Composition	3			
	ALS 181	English Composition ESL Bridge	2			
	ME 311	Thermal Fluid Sciences	4			
	ST 511	Methods of Data Analysis	4			
		GRE Prep	0			
	Total					16
	SPRING TERM					
WR 327	Technical Writing	3				
ENGR 390	Engineering Economy	3				
ST 515	Design and Analysis of Planned Experiments	3				
ENGR 212	Dynamics	3				
Total			12			

Mechanical Engineering with Materials Science Emphasis	DEGREE PROGRAM COMPONENTS			PROGRAM INFORMATION		
	FALL TERM	COURSE TITLE	CREDIT HOURS			
Pathway Entry Requirements <ul style="list-style-type: none"> 4-year undergraduate degree in engineering Satisfactory completion of a 4-year undergraduate degree in an appropriate subject with a 2.75 GPA or equivalent overall and a minimum of 2.75 GPA for the final year of study Language Proficiency: <ul style="list-style-type: none"> TOEFL 70 iBT (525 PBT) IELTS 6.0 Password overall Level 7 Completion of Academic English Level 5 with no grades below C and a Pass grade in all Pass/No Pass courses 	<ul style="list-style-type: none"> 45 credit hour program 8 credit hours apply from Pathway 37 credit hours remaining toward degree 			PROGRAM INFORMATION Students who complete the Mechanical Engineering degree program receive specialized training in mechanical engineering and will be awarded a MEng degree in Mechanical Engineering.		
	ALS 161	Academic Listening and Speaking	3			
	ALS 162	Academic Reading and Writing	3			
	ME 316	Mechanics of Materials	3			
	ENGR 321	Introduction to Materials Science	4			
	ENGR 199	INTO OSU Engineering Success	2			
	Total				15	
	WINTER TERM				Start Date <ul style="list-style-type: none"> Fall term: September 23, 2013 Progression Requirements <ul style="list-style-type: none"> A combined minimum cumulative GPA of 3.0 in the Pathway program and in the last year of the undergraduate degree A grade of B or higher in all English language classes in the Pathway or TOEFL 91 iBT with minimum subscores of 18 (575 PBT) A grade of C or higher in all Pathway classes Graduate Record Examination (GRE) minimum overall score of 1100 (301 revised) with a minimum score of 400 (146 revised) in the verbal section 	
	COMM 111	Public Speaking	3			
	WR 121	English Composition	3			
	ALS 181	English Composition ESL Bridge	2			
	ME 311	Introductions to Thermal-Fluid Sciences	4			
	ST 511	Methods of Data Analysis	4			
		GRE Prep	0			
	Total					16
	SPRING TERM					
WR327	Technical Writing	3				
ME 582	Rate Processes in Materials	4				
ME 599	Computational Methods in Material Science	4				
ST 515	Design and Analysis of Planned Experiments	3				
Total			14			

GRADUATE PATHWAY PROGRAMS—ENGINEERING

Environmental Engineering	DEGREE PROGRAM COMPONENTS			PROGRAM INFORMATION	
	<ul style="list-style-type: none"> • 45 credit hour program • 8 credit hours apply from Pathway • 37 credit hours remaining toward degree 				
Pathway Entry Requirements <ul style="list-style-type: none"> • 4 year undergraduate degree in environmental engineering (other engineering degrees may require additional time and coursework) • Satisfactory completion of a four-year undergraduate degree in an appropriate subject with a 2.75 GPA or equivalent overall and a minimum of 2.75 GPA for the final year of study • Language Proficiency: <ul style="list-style-type: none"> • TOEFL 70 iBT (525 PBT) • IELTS 6.0 • Completion of Academic English Level 5 with no grades below C and a Pass grade in all Pass/No Pass courses 	FALL TERM	COURSE TITLE	CREDIT HOURS	Start Date <ul style="list-style-type: none"> • Fall term: September 23, 2013 Progression Requirements <ul style="list-style-type: none"> • A combined minimum cumulative GPA of 3.0 in the Pathway program and in the last year of the bachelor's degree. • A grade of B or higher in all English language classes in the Pathway or TOEFL 91 iBT with minimum subscores of 18 (575 PBT) • A grade of C or higher in all Pathway classes • Graduate Record Examination (GRE) minimum overall score of 1100 (301 revised) with a minimum score of 400 (146 revised) in the verbal section <p><i>The MEng degree in Environmental Engineering is currently pending approval. Until approved, environmental engineering MEng students receive degrees in Chemical Engineering.</i></p>	
	ALS 161	Academic Listening and Speaking	3		
	ALS 162	Academic Reading and Writing	3		
	CHE 331	Transport Phenomena I	3		
	ENVE 521	Water and Wastewater Characterization	4		
	ENGR 199	INTO OSU Engineering Success	2		
		Tutorial Support	0		
		Total	15		
	WINTER TERM	COURSE TITLE	CREDIT HOURS		
	COMM 111	Public Speaking	3		
	WR 121	English Composition	4		
	ALS 181	English Composition ESL Bridge	2		
	CHE 332	Transport Phenomena II	3		
	ENVE 522	Environmental Engineering Design	4		
		GRE Prep	0		
		Total	16		
	SPRING TERM	COURSE TITLE	CREDIT HOURS		
WR 327	Technical Writing	3			
ST 314	Introduction to Statistics for Engineers	3			
CHE 333	Transport Phenomena III	3			
CHE 334	Transport Phenomena Lab	2			
ENVE 425	Air Pollution Control	3			
	Total	14			

GRADUATE PATHWAY PROGRAMS—ENGINEERING

Electrical and Computer Engineering	DEGREE PROGRAM COMPONENTS			PROGRAM INFORMATION	
	<ul style="list-style-type: none"> • 45 credit hour program • 4 credit hours apply from Pathway • 41 credit hours remaining toward degree 				
Pathway Entry Requirements <ul style="list-style-type: none"> • 4-year undergraduate degree in engineering • Satisfactory completion of a 4-year undergraduate degree in an appropriate subject with a 2.75 GPA or equivalent overall and a minimum of 2.75 GPA for the final year of study • Language Proficiency: <ul style="list-style-type: none"> • TOEFL 70 iBT (525 PBT) • IELTS 6.0 • Password overall Level 7 • Completion of Academic English Level 5 with no grades below C and a Pass grade in all Pass/No Pass courses 	FALL TERM	COURSE TITLE	CREDIT HOURS	Start Date <ul style="list-style-type: none"> • Fall term: September 23, 2013 Progression Requirements <ul style="list-style-type: none"> • A combined minimum cumulative GPA of 3.0 in the Pathway program and in the last year of the undergraduate degree • A grade of B or higher in all English language classes in the Pathway or TOEFL 91 iBT with minimum subscores of 18 (575 PBT) • A grade of C or higher in all Pathway classes • Graduate Record Examination (GRE) minimum overall score of 1100 (301 revised) with a minimum score of 400 (146 revised) in the verbal section 	
	ALS 161	Academic Listening and Speaking	3		
	ALS 162	Academic Reading and Writing	3		
	ECE 390	Electrical and Magnetic Fields	4		
	ECE 351	Systems and Signals I	4		
	ENGR 199	INTO OSU Engineering Success	2		
		Total	16		
	WINTER TERM	COURSE TITLE	CREDIT HOURS		
	COMM 111	Public Speaking	3		
	WR 121	English Composition	3		
	ALS 181	English Composition ESL Bridge	2		
	ECE 322	Electronics I	4		
	ECE 352	Systems and Signals II	4		
		GRE Prep	0		
		Total	16		
	SPRING TERM	COURSE TITLE	CREDIT HOURS		
	WR 327	Technical Writing	3		
ECE 323	Electronics II	4			
ECE 353	Probability and Random Signals	4			
ECE 572	Computer Architecture	4			
	Total	15			

Chemical Engineering	DEGREE PROGRAM COMPONENTS			PROGRAM INFORMATION	
	<ul style="list-style-type: none"> • 45 credit hour program • 12 credit hours apply from Pathway • 33 credit hours remaining toward degree 				
Pathway Entry Requirements <ul style="list-style-type: none"> • 4-year undergraduate degree in chemical engineering (other engineering degrees may require additional time and coursework) • Satisfactory completion of a 4-year undergraduate degree in an appropriate subject with a 2.75 GPA or equivalent overall and a minimum of 2.75 GPA for the final year of study • Language Proficiency: <ul style="list-style-type: none"> • TOEFL 70 iBT (525 PBT) • IELTS 6.0 • Password overall Level 7 • Completion of Academic English Level 5 with no grades below C and a Pass grade in all Pass/No Pass courses 	FALL TERM	COURSE TITLE	CREDIT HOURS	Start Date <ul style="list-style-type: none"> • Fall term: September 23, 2013 Progression Requirements <ul style="list-style-type: none"> • A combined minimum cumulative GPA of 3.0 in the Pathway program and in the last year of the undergraduate degree • A grade of B or higher in all English language classes in the Pathway or TOEFL 91 iBT with minimum subscores of 18 (575 PBT) • A grade of C or higher in all Pathway classes • Graduate Record Examination (GRE) minimum overall score of 1100 (301 revised) with a minimum score of 400 (146 revised) in the verbal section 	
	ALS 161	Academic Listening and Speaking	3		
	ALS 162	Academic Reading and Writing	3		
	CHE 331	Transport Phenomena I	3		
	CHE 443	Chemical Reaction Engineering	4		
	ENGR 199	INTO OSU Engineering Success	2		
		Total	15		
	WINTER TERM	COURSE TITLE	CREDIT HOURS		
	COMM 111	Public Speaking	3		
	WR 121	English Composition	4		
	ALS 181	English Composition ESL Bridge	2		
	CHE 332	Transport Phenomena II	3		
	CHE 550	Conventional and Alternative Energy Systems	4		
		GRE Prep	0		
		Total	16		
	SPRING TERM	COURSE TITLE	CREDIT HOURS		
	WR 327	Technical Writing	3		
CHE 333	Transport Phenomena III	3			
CHE 517	Instrumentation in Chemical, Biological and Environmental Engineering	4			
CHE 545	Polymer Engineering and Science	4			
	Total	14			

Computer Science	DEGREE PROGRAM COMPONENTS			PROGRAM INFORMATION	
	<ul style="list-style-type: none"> • 45 credit hour program • 4 credit hours apply from Pathway • 41 credit hours remaining toward degree 				
Pathway Entry Requirements <ul style="list-style-type: none"> • 4-year undergraduate degree in engineering • Satisfactory completion of a 4-year undergraduate degree in an appropriate subject with a 2.75 GPA or equivalent overall and a minimum of 2.75 GPA for the final year of study • Language Proficiency: <ul style="list-style-type: none"> • TOEFL 70 iBT (525 PBT) • IELTS 6.0 • Password overall Level 7 • Completion of Academic English Level 5 with no grades below C and a Pass grade in all Pass/No Pass courses 	FALL TERM	COURSE TITLE	CREDIT HOURS	Start Date <ul style="list-style-type: none"> • Fall term: September 23, 2013 Progression Requirements <ul style="list-style-type: none"> • A combined minimum cumulative GPA of 3.0 in the Pathway program and in the last year of the undergraduate degree • A grade of B or higher in all English language classes in the Pathway or TOEFL 91 iBT with minimum subscores of 18 (575 PBT) • A grade of C or higher in all Pathway classes • Graduate Record Examination (GRE) minimum overall score of 1100 (301 revised) with a minimum score of 400 (146 revised) in the verbal section 	
	ALS 161	Academic Listening and Speaking	3		
	ALS 162	Academic Reading and Writing	3		
	CS 261	Data Structures	4		
	CS 321	Theory of Computation	3		
	ENGR 199	INTO OSU Engineering Success	2		
		Total	15		
	WINTER TERM	COURSE TITLE	CREDIT HOURS		
	COMM 111	Public Speaking	3		
	WR 121	English Composition	3		
	ALS 181	English Composition ESL Bridge	2		
	CS 311	Operating Systems I	3		
	CS 325	Algorithms and Data Structures	4		
		GRE Prep	0		
		Total	15		
	SPRING TERM	COURSE TITLE	CREDIT HOURS		
	WR 327	Technical Writing	3		
CS 411	Operating Systems II	4			
CS 572	Computer Architecture	4			
CS 381	Programming Language Fundamentals	4			
	Total	15			

GRADUATE PATHWAY PROGRAMS—MBA

MASTER OF BUSINESS ADMINISTRATION (MBA)

The MBA program is a management program with an experiential component and an emphasis on innovation, sustainability, technology and entrepreneurship. The program is designed to provide students with the necessary skills to solve complex business problems and to successfully compete in the business marketplace. The MBA generally takes three to six terms (1-2 years) to complete depending on number of credits taken per term. For more information about the College of Business and MBA degree options, see page 20.

GRADUATE PATHWAY—MBA

The INTO OSU Graduate MBA Pathway program is designed to provide a route and academic foundation for students wanting to pursue the MBA degree. The program is an excellent choice for students with a business background who need extra language skills and test preparation. It also serves as a conversion course for students without a business background seeking foundation knowledge in business subjects.

The program structure outlined below is sample curriculum of the path students will follow in the MBA Pathway.

The MBA Pathway with the MBA program combined will take 2-3 years to complete depending on course load and specialization options.

For more information, please visit business.oregonstate.edu

The table below describes a typical MBA Graduate Pathway curriculum:

MBA	DEGREE PROGRAM COMPONENTS			PROGRAM INFORMATION
	<ul style="list-style-type: none"> 45 graduate credit hour program The MBA Graduate Pathway courses are NOT part of the degree completion requirements; they serve as a pre-degree foundation requirement. 			
Pathway Entry Requirements	TERM 1	COURSE TITLE	CREDIT HOURS	Start Dates <ul style="list-style-type: none"> Fall term: September 23, 2013 Winter term: December 30, 2013 Academic Progression Requirements <ul style="list-style-type: none"> Minimum GPA of 3.0 for the last 90 quarter credits (60 semester credits). This includes all coursework completed within the Pathway. Completion of Pathway with minimum GPA of 3.0 and grades of C- or higher in all coursework. Note: A grade of B- or better is required in all Pathway courses to progress to the nine-month MBA program. A GPA of 3.0 in all BA classes in the Pathway TOEFL 91 iBT (575 PBT), with a minimum of 22 on all iBT subscores or a minimum score of 7 on the IELTS Graduate Management Admission Test (GMAT), with a minimum overall score of 500, minimum percentiles of 20 in verbal, quantitative and integrated reasoning sections, and a minimum analytical writing score of 4. Additional Progression Requirements <ul style="list-style-type: none"> Submission of a statement of objective Submission of a current resume or vita 3 Letters of Recommendation Compliance with OSU and College of Business Academic and Professional Behavior Standards (please visit business.oregonstate.edu/about/academic-professional-standards)
<ul style="list-style-type: none"> Satisfactory completion of a 4-year undergraduate degree in an appropriate subject with a 2.75 GPA or equivalent overall and a minimum of 2.75 GPA for the final year of study. Language Proficiency: <ul style="list-style-type: none"> TOEFL iBT 70 (525 PBT) IELTS 6.0 Password overall Level 7 Completion of Academic English Level 5 with no grades below C and a Pass grade in all Pass/No Pass courses No work experience required. Undergraduate degree in Business not required. 	ALS 161	Academic Listening and Speaking	3	
	ALS 162	Academic Reading and Writing	3	
	BA 211	Financial Accounting	4	
	MTH 245	Mathematics for Management	4	
	ECON 201	Introduction to Microeconomics	4	
		Total	18	
	TERM 2	COURSE TITLE	CREDIT HOURS	
	BA 213	Managerial Accounting	4	
	BA 390	Marketing	4	
	BA 512	Business Analysis and Communication	4	
	COMM 114	Argument and Critical Discourse	3	
		TOEFL Preparation	0	
		Total	15	
	TERM 3	COURSE TITLE	CREDIT HOURS	
	BA 360	Introduction to Financial Management	4	
	BA 514	Sustainable Business Operations	4	
	BA 352	Managing Individual and Team Performance	4	
	BA 233	Legal Environment of Business	2	
		GMAT Preparation	0	
		Total	14	
	TERM 4	(OPTIONAL)		

MBA INTENSIVE TEST PREPARATION

INTO OSU is proud to offer intensive test preparation for Graduate Pathway MBA students who desire additional coursework for their TOEFL and/or GMAT requirements. Intensive test preparation will be offered in the weeks immediately following winter, spring and summer terms. During winter breaks, classes will be scheduled to allow for student participation in social programs and holiday travel.

The intensive test preparation courses will be taught by experienced instructors and focus on preparing students for the TOEFL and GMAT examinations. Classes will focus on skills-based language development throughout the program but also on the development of test-taking and test-preparation skills which will include the use of practice tests and individual feedback on performance.

The class sizes will range from 1-24 students per class. Total teaching time will be 24 hours (8 lessons of 3 hours each) for each course. The Three-hour classes will normally have a 20-minute break in the middle although this may vary. There will also be dedicated time in the Learning Center for students to work on online, CD-ROM and textbook self-study materials. Estimated cost for each course is \$495 including course materials.



Technology can enhance the classroom experience. Here, students are seen using iPads for an interactive lesson.



Stick art by artist Patrick Dougherty in People's Park depicts human-like characters and was created with the help of student volunteers.



The newly-constructed Student Legacy Park hosts three turf fields, a 531 meters track, a ten-court tennis complex, a basketball court, and a pavilion.



For students who have graduated from an engineering department and are looking for an MBA program, and they don't have work experience, I think OSU is a really good option for them. You can take core courses before the MBA so you can get familiar with the concepts.

**Ahmet Berk Ahishalioglu, Turkey
MBA Pathway**