

Bachelor of Science in Civil Engineering Worksheet

Civil Engineering Courses (34 credit hours)

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Contact Hours</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/>	CVL 203	Principles and Practice of Geomatics	4	Lect.: 3h Lab.: 2h	ConP: CGT 164 Minimum Grade of C-		
<input type="checkbox"/>	CVL 292	Contemporary Issues In Civil Engineering	2	Lect.: 2h	more than 14 credits		
<input type="checkbox"/>	CVL 297	Basic Mechanics I (Statics)	3	Lect.: 3h	PHYS 172; ConP: MA 261 with min. grade C-		
<input type="checkbox"/>	CVL 231	Engineering Materials I	3	Lect.: 3h Lab.: 2h	CVL 297 or CVL 250 or ME 271 or ME 270 or ME 250 CVL 271 (all with Min. Grade of C-)		
<input type="checkbox"/>	CVL 270	Introductory Structural Mechanics	4	Lect.: 3h Lab.: 2h	CVL297 or ME 270 or ME 271 or ME 250 or CVL 250 or CE 271 (all with Min. Grade of C-) ConP: CVL 231 with Minimum Grade of C-		
<input type="checkbox"/>	CVL 298	Basic Mechanics II Dynamics	3	Lect.: 3h	CVL 297 or CVL 270 or ME 271 or CVL 250 or ME 250 or CE 271 (all with Minimum Grade of C-)		
<input type="checkbox"/>	CVL 331	Engineering Materials II	3	Lect.: 3h Lab.: 2h	CVL 231 with min. grade C-		
<input type="checkbox"/>	CVL 340	Hydraulics	3	Lect.: 3h	CVL 298 or ME 251 or AAE 203 or CVL 251 or ME 274 or ME 275 or CVL 275 (all with min. grade C-)		
<input type="checkbox"/>	CVL 343	Elementary Hydraulics Laboratory	1	Lab.: 3h	ConP: CVL 340 with min. grade C-		
<input type="checkbox"/>	CVL 392	Technical Communication In Civil Engineering	2	Lect.: 2h	CVL 292 with min. grade C-		
<input type="checkbox"/>	CVL 398	Introduction to Civil Engineering System Design	3	Lect.: 3h	MA 261		
<input type="checkbox"/>	CVL 498	Civil Engineering Design Project	3	Meeting 1h	Last semester only. If last semester is summer then to be taken in preceding spring.		

Civil Engineering Credits Planned: _____

Credits Completed: _____

Credits Remaining: _____

General Engineering Requirements (9 credit hour)

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Contact Hours</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> ENGR 131	Transforming Ideas to Innovation I	2	Lect.: 2h Lab.: 2h	-			
<input type="checkbox"/> ENGR 132	Transforming Ideas to Innovation II	2	Lect.: 2h Lab.: 2h	ENGR 131			
<input type="checkbox"/> CGT 164	Graphics for Civil Engineering and Construction	2	Lect.: 2h Lab.: 2h				
<input type="checkbox"/> ME 200	Thermodynamics	3	Lect.: 3h	MA 261, CHM 115			

General Engineering Credits Planned: _____ Credits Completed: _____ Credits Remaining: _____

Mathematics and Science Courses (38 credits)

Quantitative Methods (21 credits)

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Contact Hours</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> MA 165	Analytic Geometry And Calculus I	4	Lect.: 3h; PS: 2h	Passing Math Placement Test or MAT 110			
<input type="checkbox"/> MA 166	Analytic Geometry And Calculus II	4	Lect.: 4h	MA 165			
<input type="checkbox"/> MA 261	Multivariate Calculus	4	Lect.: 4h	MA 166			
<input type="checkbox"/> MA 265	Linear Algebra	3	Lect.: 3h	MA 166			
<input type="checkbox"/> MA 266	Ordinary Differential Equations	3	Lect.: 3h	MA 261			
<input type="checkbox"/> STAT 511	Statistical Methods	3	Lect.: 3h	MA 166 with min. grade C-			

Quantitative Methods Credits Planned: _____ Credits Completed: _____ Credits Remaining: _____

Sciences (11 credit hours)

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Contact Hours</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> CHM 115	General Chemistry	4	Lect.: 3h; Lab.: 2h	ConP: MA 165			
<input type="checkbox"/> PHYS 172	Modern Mechanics + Lab	4	Lect.: 3h; Lab.: 2h	ConP: MA 165			
<input type="checkbox"/> PHYS 241	Electricity and Optics	3	Lect.: 3h	PHYS 172			

Science Credits Planned: _____ Credits Completed: _____ Credits Remaining: _____

Basic Science Selective (3-4 credits):

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Contact Hours</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
Student has to choose from the list provided in the Degree Requirements							
<input type="checkbox"/>							
<input type="checkbox"/>							

Basic Science Credits Planned: _____ Credits Completed: _____ Credits Remaining: _____

Science Selective (3-4 credits):

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Contact Hours</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> CHM 116	General Chemistry II	4		CHM 115			Recommended, may be a Pre-requisite for some technical electives.
OR							
<input type="checkbox"/> CS 159	Programming Applications for Engineering	3		ENGR 131			

Science Selective Credits Planned: _____ Credits Completed: _____ Credits Remaining: _____

Technical Electives (30 credits):

Refer to Technical Elective Requirements for Civil Engineering Students and AUM Course Catalogue

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Contact Hours</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> CVL 371	Structural Analysis	3	Lect.: 3h	Pre: CVL 270 (min. grade of C-)			
<input type="checkbox"/> CVL 473	Theory of Reinforced Concrete	4	Lect.: 3h Lab.: 3h	Pre: CVL 371			
<input type="checkbox"/> CVL 383	Geotechnical Engineering	3	Lect.: 3h Lab.: 2h	ConP: CVL 340 (min. grade of C-)			
<input type="checkbox"/> CVL 470	Structural Design in Metals	3	Lect.: 3h Lab.: 2h	Pre: CVL 371			
<input type="checkbox"/> CVL 522	Computer applications in construction	4	Lect.: 2h Lab.: 2h	Pre: Senior			
<input type="checkbox"/> CVL 483	Geotechnical Engineering II	3	Lect.: 3h	Pre: CVL 383			
<input type="checkbox"/> CVL 353	Physico-chemical principles of Environmental Engineering	4	Lect.: 3h Lab.: 2h				
<input type="checkbox"/> CVL 222	Life Cycle Engineering and Management of Constructed Facilities	3	Lect.: 3h	Pre: Sophomore			
<input type="checkbox"/> CVL 361	Transportation Engineering	3	Lect.: 3h	Pre: Junior			
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

Technical Electives Credits Planned: _____ Credits Completed: _____ Credits Remaining: _____

Name:	
UID:	
Date:	

Liberal Arts Requirements (25 credit)

Refer to the Liberal Arts Department Course Catalogue

English Language and Communication Skills (10 credits).

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Contact Hours</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> ENGL 100	English for Academic Studies	3	Lect.: 3h				
<input type="checkbox"/> ENGL 106	First-Year Composition	4	Lect.: 4h	ENGL 100			
<input type="checkbox"/> COM 114	Fundamentals Of Speech Communication	3	Lect.: 3h	ENGL 100			

English Language and Communication Credits Planned: _____ Credits Completed: _____ Credits Remaining: _____

General Education Electives (15 credits):

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Contact Hours</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

Liberal Arts Credits Planned: _____ Credits Completed: _____ Credits Remaining: _____



Name:	
UID:	
Date:	

Minimum Total Credits Required for Degree: 136

Total Credits Planned: _____

Total Credits Completed: _____

Total Credits Remaining: _____