

FAU Bachelor of Science in Civil Engineering (BSCV)

General Education Requirements – Intellectual Foundation Program (ILP)

ENC1101 – English Composition I	3
ENC1102 – English Composition II	3
Foundations of Society & Human Behaviors (1)	3
Foundations of Society & Human Behaviors (2)	3
Foundations of Global Citizenship (1)	3
Foundations of Global Citizenship (2)	3
Foundations of Creative Expressions (1)	3
Foundations of Creative Expressions (2)	3

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Basic Mathematics and Sciences

MAC2281 – Calculus for Engineers I	4
MAC2282 – Calculus for Engineers II	4
MAC 2313 – Calculus with Analytical Geometry III	4
MAP3305 – Engineering Mathematics I	3
STA4032 – Probability & Statistics for Engineers	3
CHM2045 – General Chemistry I	3
CHM2045L – General Chemistry I Lab	1
PHY2043 – Physics for Engineers I	3
PHY2048L – General Physics I Lab	1
PHY2044 – Physics for Engineers II	3
PHY2049L – General Physics II Lab	1
SUR2104C – Fundamentals of Surveying	3

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Engineering Fundamentals

CGN2327 – Fundamentals of Autocad	3
EGN1002 – Fundamentals of Engineering	3
EGN2213 – Computer Applications In Engineering 1	3
EGN3311 – Statics	3
EGN3331 – Strength of Materials	3
EGN3321 – Dynamics	3
EGN3343 – Engineering Thermodynamics	3

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Professional Core

CEG3011C – Soil Mechanics	3
CEG4012 – Foundation Engineering	3
CES3102C – Analysis of Structures	3
CES4605 – Structural Steel Design	3
CES4702 – Reinforced Concrete Design	3
CGN3501C – Civil Engineering Materials	3
CGN3910 – Undergraduate Research In Civil Engineering I	1
CGN4911 – Undergraduate Research In Civil Engineering II	1
CGN4803C – Civil Engineering Design I	3
CGN4804C – Civil Engineering Design II	3
CWR3201C – Applied Hydraulics	3
CWR4202 – Hydrologic Engineering	3
ENV3001C – Environmental Science & Engineering	3
ENV4514 – Water & Wastewater Treatment System	3
TTE3004C – Introduction to Transportation Engineering	3
TTE4005C – Transportation Planning & Logistics	3

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Civil Engineering Technical Electives

(Select two electives or a graduate course from this list):

CCE4031 – Construction Project Management	3
CEG4126 – Pavement Design	3
CGN4321 – GIS for Civil Engineering Applications	3
CWR4223 – Advanced Hydraulic Systems	3
CWR4307 – Stormwater Modeling and Management	3
TTE4105 – Seminar in Transportation Planning & Management	3

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<p><i>1. Syllabus must be attached. Syllabus checklist recommended; see guide lines and checklist: www.fau.edu/academic/registrar/UUP/CSgo</i></p> <p><i>2. Review Provost Memo and Item Definition of a Credit Hour www.fau.edu/provost/Provost/Definition_Credit_Hour_Memo_2012.pdf</i></p> <p><i>3. VAC approval (attach if necessary)</i></p> <p><i>4. Gen. Ed. approval (attach if necessary)</i></p> <p><i>5. Consent of affected departments (attach if necessary)</i></p>	<p>Date: 2/25/13</p> <p>2/25/13</p> <p>2/26/13</p> <p>3/28/13</p> <p>3/27/13</p>	<p>Approved by: <i>[Signature]</i></p> <p>Department Chair: <i>[Signature]</i></p> <p>College Curriculum Chair: <i>[Signature]</i></p> <p>College Dean: <i>[Signature]</i></p> <p>UUPC Chair: <i>[Signature]</i></p> <p>Undergraduate Studies Dean: <i>[Signature]</i></p> <p>UFS President: <i>[Signature]</i></p> <p>Provost: _____</p>
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Current Catalog of BS in Civil Engineering

General Studies		
College Writing 1 (1),(2)	ENC 1101	3
College Writing 2 (1),(2)	ENC 1102	3
Social Sciences (1),(3),(4)		9
Humanities (1),(3),(4)		9
Total		24

Basic Mathematics and Sciences		
Calculus for Engineers 1 (1),(5)	MAC 2281	4
Calculus for Engineers 2 (1),(5)	MAC 2282	4
Calculus with Analytic Geometry 3	MAC 2313	4
Engineering Mathematics 1	MAP 3305	3
Probability and Statistics for Engineers	STA 4032	3
Chemistry (1)	EGN 2095	3
Chemistry Lab (1)	EGN 2095L	1
Physics for Engineers 1 (1),(6)	PHY 2043	3
General Physics 1 Lab	PHY 2048L	1
Physics for Engineers 2 (1),(6)	PHY 2044	3
General Physics 2 Lab	PHY 2049L	1
Surveying		3
Total		33

Engineering Fundamentals		
Fundamentals of AutoCAD	CGN 2327	3
Fundamentals of Engineering	EGN 1002	3
Computer Programming Elective (7)		3
Statics	EGN 3311	3
Dynamics	EGN 3321	3
Strength of Materials	EGN 3331	3
Engineering Science Elective (8)		3
Total		21

Professional Core (9)		
Soil Mechanics (10)	CEG 3011C	3
Foundation Engineering	CEG 4012	3
Analysis of Structures (10)	CES 3102C	3
Structural Steel Design	CES 4605	3

Reinforced Concrete Design	CES 4702	3
Civil Engineering Materials (10)	CGN 3501C	3
Civil Engineering Design 1 (10)	CGN 4803C	3
Civil Engineering Design 2 (10)	CGN 4804C	3
Applied Hydraulics (10)	CWR 3201C	3
Hydrologic Engineering	CWR 4202	3
Environmental Science and Engineering (10)	ENV 3001C	3
Water and Wastewater Treatment Systems	ENV 4514	3
Introduction to Transportation Engineering (10)	TTE 3004C	3
Transportation Planning and Logistics (10)	TTE 4005C	3
Total		41

Technical Electives, 9 credits (11)		
Students select 9 credits from a list of approved technical electives.		
Construction Project Management	CCE 4031	3
Pavement Design	CEG 4126	3
Seminar in Transportation Planning and Management	TTE 4105	3
Engineering Economics	EGN 4613	3
GIS Application in Civil Engineering	CGN 4321	3
Stormwater Modeling and Management	CWR 4307	3
Total		9

Total **128**

Notes:

1. Technical Electives were reduced to 6 credits;
2. EGN4613 was replaced by CWR4233 in the list of Technical Electives;
3. As the response to the new university initiative of QEP, two undergraduate civil engineering research courses CGN3910 and CGN4911 were added to the Professional Core.
4. Total credits of the Civil Engineering BS program are 128.