



COLLEGE OF ENGINEERING

CIVIL ENGINEERING DEPARTMENT

OFFICE OF THE HEAD

Curriculum Checklist

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Major in CONSTRUCTION ENGINEERING AND MANAGEMENT

Effective First Semester, A.Y. 2021-2022

EVSU Board Resolution No. 07, s. 2022

FIRST YEAR - First Semester

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS PER WEEK		UNITS	PRE-REQUISITES / CO-REQUISITES
			LEC	LAB		
	CE 112	Civil Engineering Orientation	2	0	2	None
	CHEM 114**	Chemistry for Engineers	3	3	4	None
	MATH 112	Solid Mensuration	2	0	2	None
	MATH 153	Analytic Geometry	3	0	3	None
	MATH 113	College Algebra	3	0	3	None
	MATH 133	Plane and Spherical Trigonometry	3	0	3	None
	PATH FIT 112	PATHFIT-I (Movement Competency Training)	2	0	2	None
	GEN ED 003	Readings in Philippine History	3	0	3	None
	NSTP 113	NSTP 1	3	0	3	None
TOTAL			24	3	25	

Evaluated by:

\*Comp. Subject with computer fee. \*\* Subjects with laboratory fee

FIRST YEAR - Second Semester

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS PER WEEK		UNITS	PRE-REQUISITES / CO-REQUISITES
			LEC	LAB		
	COMP 11*	Computer Fundamentals and Programming	0	6	2	None
	DRAW 11**	Engineering Drawing and Plans	0	3	1	None
	GEO 122	Geology for Civil Engineers	3	0	3	Chem 114
	GEN EL 001	Environmental Science	3	0	3	Chem 114
	MATH 124	Differential Calculus	4	0	4	MATH 113, MATH 133, MATH 153, MATH 112
	DRR 113	Disaster Risk Reduction and Education	3	0	3	None
	PATH FIT 122	PATHFIT-II (Fitness Training)	2	0	2	None
	NSTP 123	NSTP 2	3	0	3	NSTP 1
	GEN ED 004	Mathematics in the Modern World	3	0	3	None
	GEN ED 005	Art Appreciation	3	0	3	None
TOTAL			24	9	27	

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FIRST YEAR - Summer

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS PER WEEK		UNITS	PRE-REQUISITES / CO-REQUISITES
			LEC	LAB		
	GEN EL 004	Living in the IT Era	3	0	3	None
	GEN ED 001	Purposive Communication	3	0	3	None
	GEN ED 002	Understanding the Self	3	0	3	None
TOTAL			9	0	9	

Evaluated by:

\*Comp. Subject with computer fee. \*\* Subjects with laboratory fee

SECOND YEAR - First Semester

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS PER WEEK		UNITS	PRE-REQUISITES / CO-REQUISITES
			LEC	LAB		
	CAD 11*	Computer-Aided Drafting	0	3	1	Comp 11, Draw 11
	EDA 11	Engineering Data Analysis	3	0	3	MATH 124
	RIZAL 001	Rizal's Life and Works	3	0	3	None
	CE 263	Engineering Urban Planning	3	0	3	None
	MATH 214	Integral Calculus	4	0	4	MATH 124
	PHYS 215	Physics for Engineers	3	6	5	MATH 124
	PATH FIT 212	PATHFIT-III (Dance, Sports, Group Exercise, Outdoor and Adventure Activities-1)	2	0	2	None
	GEN ED 007	The Contemporary World	3	0	3	None
TOTAL			21	9	24	

Evaluated by:

\*Comp. Subject with computer fee. \*\* Subjects with laboratory fee

SECOND YEAR - Second Semester

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS PER WEEK		UNITS	PRE-REQUISITES / CO-REQUISITES
			LEC	LAB		
	ECON 11	Engineering Economics	3	0	3	MATH 113
	GEN ED 008	Science, Technology & Society	3	0	3	None
	CE 225**	Fundamentals of Surveying	3	6	5	DRAW 11, MATH 113, MATH 133, MATH 153, MATH 112
	MATH 223	Differential Equations	3	0	3	Math 214
	CE 224	Statics of Rigid Bodies	4	0	4	MATH 214, PHYS 215
	PATH FIT 222	PATHFIT-IV (Dance, Sports, Group Exercise, Outdoor and Adventure Activities-2)	2	0	2	None
	GEN ED 006	Ethics	3	0	3	None
	CE 223	Engineering Utilities 1	3	0	3	PHYS 215
TOTAL			24	6	26	

Evaluated by:

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SECOND YEAR - Summer

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS PER WEEK		UNITS	PRE-REQUISITES / CO-REQUISITES
			LEC	LAB		
	GEN EL 006	Philippine Indigenous Communities	3	0	3	None
	CE 203	Engineering Utilities 2	3	0	3	PHYS 215
	MGT 11	Engineering Management	3	0	3	2nd Year Standing
TOTAL			9	0	9	

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THIRD YEAR - First Semester

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS PER WEEK		UNITS	PRE-REQUISITES / CO-REQUISITES
			LEC	LAB		
	CE 313**	Construction Materials and Testing	2	3	3	CE 224
	CE 315	Mechanics of Deformable Bodies	5	0	5	CE 224
	CE 333	Dynamics of Rigid Bodies	3	0	3	CE 224
	MATH 313	Advance Engineering Math for CE	3	0	3	MATH 223
	MATH 333*	Numerical Solutions to CE Problems	2	3	3	MATH 223, MATH 313
	CE 353	Highway and Railroad Engineering	3	0	3	CE 225
	CE 373**	Fluid Mechanics	2	3	3	CE 333
	CE 393**	Building Systems Design	2	3	3	DRAW 11, CE 223, CE 203
TOTAL			22	12	26	

Evaluated by:

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THIRD YEAR - Second Semester

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS PER WEEK		UNITS	PRE-REQUISITES / CO-REQUISITES
			LEC	LAB		
	CE 325**	Structural Theory	3	6	5	CE 315
	CE 322	Hydrology	2	0	2	CE 373
	CE 324**	Hydraulics	3	6	5	CE 315, CE 333, CE 373
	CE 364**	Geotechnical Engineering 1 (Soil Mechanics)	3	3	4	CE 315, GEO 122
	CE 342**	Quantity Surveying	1	3	2	CE 393
	TECHNO 11	CE Technopreneurship 101	3	0	3	3rd Year Standing
TOTAL			15	18	21	

Evaluated by:

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THIRD YEAR - Summer

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS PER WEEK		UNITS	PRE-REQUISITES / CO-REQUISITES
			LEC	LAB		
	OJT	On-the-Job Training - 240 hours	2	3	3	SEE NOTE BELOW
TOTAL			2	3	3	

Evaluated by:

Note: MUST HAVE PASSED ALL PREVIOUS PROFESSIONAL SUBJECTS AS PER CHED CMO NO. 104

FOURTH YEAR - First Semester

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS PER WEEK		UNITS	PRE-REQUISITES / CO-REQUISITES
			LEC	LAB		
	CE 411	CE Correlation Course 1	0	3	1	CE 324, CE 364
	CE 414**	Construction Methods and Project Management	3	3	4	MGT 11, CE 342
	CE 434**	Principles of Reinforced / Prestressed Concrete	3	3	4	CE 325
	CE 413**	Principles of Steel Design	2	3	3	CE 325
	CE 412	Principles of Timber Design	2	0	2	CE 325
	CE 433**	CE Project 1	1	6	3	CE 325, CE 364, CE434, CE 413, CE 412
	CE Prof 1	Project Construction and Management	3	0	3	4th year Standing
	CE Prof 2	Advanced Construction Methods and Equipment	3	0	3	4th year Standing
TOTAL			17	18	23	

Evaluated by:

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FOURTH YEAR - Second Semester

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS PER WEEK		UNITS	PRE-REQUISITES / CO-REQUISITES
			LEC	LAB		
	CE 421	CE Correlation Course 2	0	3	1	MATH 333, MATH 313, CE 225
	CE 441	CE Correlation Course 3	0	3	1	CE 434, CE 413, CE 412
	CE 424**	Foundation and Retaining Wall Design	3	3	4	CE 364
	CE 423	Principles of Transportation Engineering	3	0	3	CE 353
	CE 443**	CE Project 2	1	6	3	CE 433
	CE Prof 3	Construction Cost Engineering	3	0	3	4th year Standing
	CE Prof 4	Database Management in Construction	3	0	3	4th year Standing
	CE Prof 5	Construction Occupational Safety and Healthy(COSH)	3	0	3	4th year Standing
	LAW 402	CE Laws, Ethics and Contracts	2	0	2	4th year Standing
TOTAL			18	15	23	

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SUMMARY OF THE BSCE CURRICULUM

CLASSIFICATION / FIELDS	MINIMUM NUMBER OF UNITS PER CMO 92 s. 2017	EVSU BSCE CURRICULUM
<b>I. TECHNICAL COURSES</b>		
A. MATHEMATICS	15	20
B. NATURAL/PHYSICAL SCIENCES	10	12
C. BASIC ENGINEERING SCIENCES	23	27
D. ALLIED COURSES	6	6
E. PROFESSIONAL COURSES - COMMON	49	65
F. PROFESSIONAL COURSES - SPECIALIZED	15	15
G. On-the-Job Training	3	3
SUB TOTAL	121	148
<b>II. NON-TECHNICAL COURSES</b>		
A. GENERAL EDUCATION	24	24
B. GEC ELECTIVE/MANDATED COURSES	12	12
C. PHYSICAL EDUCATION	8	8
D. NSTP	6	6
SUB TOTAL	50	50
<b>III. ADDITIONAL COURSES</b>		
A. MATHEMATICS		11
B. CORRELATION COURSES		3
D. DRR		3
SUB TOTAL	0	17
TOTAL NUMBER OF UNITS	171	215



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**LIST OF ELECTIVES, TRACK SPECIALIZATION, SPECIAL TOPICS and ADD-ON COURSES**

TRACK SPECIALIZATION	SPECIAL TOPICS / CORRELATION COURSES		GENERAL EDUCATION ELECTIVES		ADD-ON COURSES	
<b>A. STRUCTURAL ENGINEERING</b>	CE 411	CE Correlation Course 1	GEN EL 001	Environmental Science	MATH 112	Solid Mensuration
CE PROF 11 Computer Softwares in Structural Analysis	CE 421	CE Correlation Course 2	GEN EL 004	Living in the IT Era	MATH 153	Analytic Geometry
CE PROF 12 Earthquake Engineering	CE 441	CE Correlation Course 3	GEN EL 006	Philippine Indigenous Communities	MATH 113	College Algebra
CE PROF 13 Design of Steel Structures					MATH 133	Plane and Spherical Trigonometry
CE PROF 14 Prestressed Concrete Design					DRR 113	DRR
CE PROF 15 Reinforced Concrete Design						
<b>B. WATER RESOURCES ENGINEERING</b>						
CE PROF 21 Water Resources Engineering						
CE PROF 22 Flood Control and Drainage Design						
CE PROF 23 Irrigation Engineering						
CE PROF 24 Water Supply Planning and development						
CE PROF 25 Coastal Engineering						
<b>C. CONSTRUCTION ENGINEERING AND MANAGEMENT</b>						
CE PROF 31 Project Construction and Management						
CE PROF 32 Advanced Construction Methods and Equipment						
CE PROF 33 Construction Cost Engineering						
CE PROF 34 Database Management in Construction						
CE PROF 35 Construction Occupational Safety and Healthy(COSH)						

**POLICIES AND GUIDELINES**

**1. College of Engineering RETENTION POLICY as per EVSU Board Resolution 110 s. 2009**

**A. SCHOLASTIC DELINQUENCY**

- A student who, at the end of the semester, obtains a failing grade in one (1) of the subjects for which he has registered will receive a **FIRST WARNING** from the Dean through the recommendation of the Head, to improve his work.
- A student will receive a **FINAL WARNING** and be given a Probationary Status from the Dean through the recommendation of the Head if:
  - at the end of the semester, he obtains a failing grade in two (2) of the subjects in which he has final grades;
  - at the end of the semester, he obtains a failing grade in two (2) of the subjects in which he has final grades;

*A student who receives a FINAL WARNING shall have his load for the succeeding semester limited to the extent which shall be determined by the Dean through the recommendation of the Head and may undergo counseling either by the Guidance counselor or academic adviser or both*

*Any student who has received two successive warnings shall be placed on probation. Probation may be lifted the following semester if the student passes all his subjects in whom he/she has final grades.*

*A "First or Final Warning" may be removed by passing with grades of "3.0" or "Better" in all of the subjects he is registered during the succeeding semester.*
- A student shall be **DISMISSED** from the college if:
  - At the end of the semester, he failed in three (3) or more of the subjects in which he has final grades;
  - He failed three times successively in the same subject;A student shall be **DISMISSED** from the college if:
  - Failed to earn a grade of 3.0 or better in all of the subjects he is registered while he is on Probationary Status. However, he/she may be readmitted to another College of the University to which He/She qualifies.
  - The Student earns an accumulated failing grades of 18 units or more at the end of any semester from 1st year to 3rd year.A student shall be **DISMISSED** from the college if:
  - If a student in the 4th and 5th year fails 9 units in a semester, he/she will only be accepted after seeking approval from the college Dean; those with accumulated failures of 18 units need to submit Program of Study subject to approval of the Dean.A student who is admitted into the College must pass all his deficiencies in the Mathematics, Chemistry, Physics, and English courses within three school years of actual residence in the University.

**NOTE:**

- o If a student fails a subject but re-enrolls it and receives a grade of 2.5 or higher during the latter semester, the original failure will not be counted in the accumulation.*
- o A student who gets disqualified in the college of engineering may be readmitted in other college provided they meet the admission requirements and his abilities fit for that program upon the recommendation of the Guidance Counselor and Dean of the College he is enrolled in.*
- o Dismissal does not apply to cases where, on the recommendation of the faculty concerned, he certifies that the grade of "5.0" were due to the students unauthorized dropping of the subjects and not to poor scholarship.*
- o However, if the unauthorized withdrawal takes place after the mid-semester and the student's class standing is poor, his grades of "5.0" shall be counted against him for the purpose of this scholarship rule. The Dean shall deal with those cases on their individual services; provided, that in no case of readmission to the same College shall the action be lighter than "Final Warning".*
- o Grades of "Inc." must be completed and grades of "conditional failure" removed before the close of registration for the first semester of the next school year in order to be credited.*
- o For the purpose of definition, a school year will consist of two semesters and one summer session.*
- o One semester will be equivalent to 3/7 of a school year, and one summer will be equivalent to 1/7 of a school year*

Prepared by:

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Noted by:

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