



RA 9299

Republic of the Philippines

June 25, 2004

Negros Oriental State University

NOPS (1907)

NOTS (1927)

EVSAT (1956)

CVPC (1983)

Kagawasan Ave., Dumaguete City, Negros Oriental, Philippines 6200

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Per CMO No. 92, series of 2017

Effective School Year 2018-2019

FIRST YEAR

| First Semester | | | | | |
|----------------|-------------------------------------|-----------|----------|-----------|----------|
| Subject | Descriptive Title | Lec | Lab | Total | Pre-req. |
| ENM 131 | Engineering Calculus I | 3 | | 3 | |
| EPS 131 | Chemistry for Engineers | 3 | 3 | 4 | |
| ENS 131 | Engineering Orientation (CE) | 2 | | 2 | |
| GE 1 | Understanding the Self | 3 | | 3 | |
| GE 2 | Readings in Philippine History | 3 | | 3 | |
| GE 3 | The Contemporary World | 3 | | 3 | |
| PE 1 | Physical Fitness and Health | 2 | | 2 | |
| NSTP 1 | National Service Training Program 1 | 3 | | 3 | |
| TOTAL | | 22 | 3 | 23 | |
| *ENM 011 | Algebra 1 | 2 | | 2 | |
| *ENM 012 | Plane & Spherical Trigonometry | 2 | | 2 | |

* Enhancement courses for NON-STEM Senior High Graduates

| Second Semester | | | | | |
|-----------------|--|-----------|----------|-----------|----------|
| Subject | Descriptive Title | Lec | Lab | Total | Pre-req. |
| ENM 141 | Engineering Calculus 2 | 3 | | 3 | ENM 131 |
| EPS 141 | Physics for Engineers | 3 | 3 | 4 | ENM 131 |
| ENS 143 | Engineering Drawing and Plans | | 3 | 1 | |
| ENS 142 | Computer Fund. & Programming | 2 | 3 | 3 | |
| GE 4 | Mathematics in the Modern World | 3 | | 3 | |
| GE 5 | Purposive Communication | 3 | | 3 | |
| GE 6 | Art Appreciation | 3 | | 3 | |
| PE 2 | Recreational Games and Sports | 2 | | 2 | |
| NSTP 2 | National Service Training Program 2 | 3 | | 3 | |
| TOTAL | | 22 | 9 | 25 | |
| *ENM 021 | Algebra 2 | 2 | | 2 | |
| *ENM 022 | Analytic Geometry w/ Solid Mensuration | 2 | | 2 | |

SECOND YEAR

| First Semester | | | | | |
|----------------|--------------------------------|-----------|----------|-----------|----------|
| Subject | Descriptive Title | Lec | Lab | Total | Pre-req. |
| ENM 231 | Differential Equations | 3 | | 3 | ENM141 |
| ENS 231 | Statics of Rigid Bodies | 3 | | 3 | EPS141 |
| ENS 232 | Computer-Aided Design | 1 | 3 | 2 | |
| ENS 233 | Environmental Science & Eng'g. | 3 | | 3 | |
| GdE 230 | Fundamentals of Surveying | 3 | 3 | 4 | |
| GE 7 | Science, Technology & Society | 3 | | 3 | |
| GE 8 | Ethics | 3 | | 3 | |
| FIL 1 | Akademiko sa Wikang Filipino | 3 | | 3 | |
| PE 3 | Rhythmic and Social Recreation | 2 | | 2 | |
| TOTAL | | 24 | 6 | 26 | |

| Second Semester | | | | | |
|-----------------|--|-----------|----------|-----------|-----------------|
| Subject | Descriptive Title | Lec | Lab | Total | Pre-req. |
| ENM 241 | Engineering Data Analysis | 3 | | 3 | 2nd yr standing |
| ENS 241 | Dynamics of Rigid Bodies | 3 | | 3 | ENS231 |
| ENS 242 | Mechanics. of Deformable Bodies | 4 | | 4 | ENS231;ENM141 |
| ENS 243 | Technopreneurship | 3 | | 3 | 2nd yr standing |
| ENS 244 | Principles of Geology | 3 | | 3 | 2nd yr standing |
| CE 241 | Construction Materials and Testing | 2 | 3 | 3 | 2nd yr standing |
| CE 242 | Highway & Railroad Engineering | 3 | | 3 | GdE 230 |
| FIL 2 | Pagbasa at Pagsulat sa Iba't Ibang Disiplina | 3 | | 3 | |
| PE 4 | Cultural Presentation & Sports Management | 2 | | 2 | |
| TOTAL | | 26 | 3 | 27 | |

THIRD YEAR

| First Semester | | | | | |
|----------------|--|-----------|-----------|-----------|-----------------|
| Subject | Descriptive Title | Lec | Lab | Total | Pre-req. |
| ENM 331 | Numerical Methods and Analysis | 3 | 3 | 4 | ENM231 |
| ENS 331 | Engineering Economics | 3 | | 3 | 3rd yr standing |
| CE 331 | Structural Theory 1 | 3 | 3 | 4 | ENS 242 |
| CE 332 | Engineering Utilities 1 | 3 | | 3 | 3rd yr standing |
| CE 333 | Soil Mechanics | 3 | 3 | 4 | ENS241 |
| CE 334 | Hydraulics 1 | 3 | 3 | 4 | ENS241 |
| CE 335 | Principles of Transportation Engineering | 3 | | 3 | CE242 |
| TOTAL | | 21 | 12 | 25 | |

| Second Semester | | | | | |
|-----------------|--|-----------|-----------|-----------|-----------------|
| Subject | Descriptive Title | Lec | Lab | Total | Pre-req. |
| ENS 343 | Engineering Management | 3 | | 3 | 3rd yr standing |
| CE 341 | Principles of Steel Design | 2 | 3 | 3 | CE331 |
| CE 342 | Principles of Reinforced/Pre-stressed Concrete | 3 | 3 | 4 | CE331 |
| CE 343 | Hydrology | 3 | | 3 | 3rd yr standing |
| CE 344 | Hydraulics 2 | 3 | 3 | 4 | CE334 |
| CE 345 | Engineering Utilities 2 | 3 | | 3 | CE332 |
| CE 346 | Structural Theory 2 | 3 | 3 | 4 | CE331 |
| LIT 2 | World Literature | 3 | | 3 | |
| TOTAL | | 23 | 12 | 27 | |

Summer

| Subject | Descriptive Title | Lec | Lab | Total | Pre-req. |
|---------|-------------------------------|-----|-----|-------|---------------------------------------|
| CE 400 | On-the-Job Training 300 hours | 3 | 300 | 5 | Completed all 3rd year Major Subjects |

FOURTH YEAR

| First Semester | | | | | |
|----------------|--|-----------|----------|-----------|-----------------|
| Subject | Descriptive Title | Lec | Lab | Total | Pre-req. |
| CE 431 | CE Project Proposal | 1 | 3 | 2 | CE400 |
| CE 432 | Reinforced Concrete Design | 3 | | 3 | 4th yr standing |
| CE 433 | Foundation Engineering & Retaining Wall Design | 3 | | 3 | 4th yr standing |
| CE 434 | Irrigation Engineering | 3 | | 3 | 4th yr standing |
| CE 435 | Building Systems Design | 2 | 3 | 3 | CE345 |
| CE 436 | Construction Methods and Project Management | 3 | | 3 | ENS343 |
| CE 437 | Quantity Surveying | 2 | 3 | 3 | 4th yr standing |
| CE 438 | Water Resources Engineering | 3 | | 3 | 4th yr standing |
| GE 9 | Life & Works of Rizal | 3 | | 3 | |
| TOTAL | | 23 | 9 | 26 | |

| Second Semester | | | | | |
|-----------------|---|-----------|----------|-----------|-----------------|
| Subject | Descriptive Title | Lec | Lab | Total | Pre-req. |
| CE 441 | CE Project Study | | 6 | 2 | CE431 |
| CE 442 | Water Supply Planning & Development | 3 | | 3 | 4th yr standing |
| CE 443 | Earthquake Engineering | 3 | | 3 | 4th yr standing |
| CE 444 | Construction Occupational Safety and Health | 3 | | 3 | 4th yr standing |
| CE 445 | CE Laws, Contracts, Ethics, Codes & Standards | 3 | | 3 | 4th yr standing |
| CE 446 | Sewerage & Sewage Disposal | 3 | | 3 | 4th yr standing |
| CE 500 | NORSU Eng'g Competency Assessment | 3 | | 3 | 4th yr standing |
| TOTAL | | 18 | 6 | 20 | |

Summary:

| | |
|----------------------------|------------|
| NON TECHNICAL | 50 |
| General Education: | 24 |
| GE Elective/Mandated: | 12 |
| Physical Education: | 8 |
| NSTP: | 6 |
| TECHNICAL | 154 |
| Mathematics | 16 |
| Natural/Physical Sciences | 11 |
| Engineering Sciences | 32 |
| Allied Courses: | 6 |
| Professional -Common | 60 |
| Professional - Specialized | 24 |
| OJT | 5 |
| Total | 204 |
| With Enhancement | 8 |
| Total | 212 |