



UNIVERSITY OF PERPETUAL HELP SYSTEM DALTA
 Pamplona, Las Piñas City
COLLEGE OF ENGINEERING



REVISED FIVE YEAR ENGINEERING CURRICULUM
B.S. IN CIVIL ENGINEERING
EFFECTIVE SCHOOL YEAR 2000-2001

FIRST YEAR - FIRST SEMESTER

| COURSE NO. | COURSE DESCRIPTION | LEC (hrs) | LAB (hrs) | UNITS | |
|------------|--------------------|--------------------------------|--------------|-------|-------|
| _____ | Math 114 | College Algebra | 4 | 0 | 4 |
| _____ | Math 113 | Plane & Spherical Trigo | 3 | 0 | 3 |
| _____ | Engl 100 | English Plus | (2) | 0 | (2) |
| _____ | Chem 113 | Gen. & Inorganic Chem. 1 (lec) | 3 | 0 | 3 |
| _____ | Chem 113L | Gen. & Inorganic Chem. 1 (lab) | 0 | 3 | 1 |
| _____ | Draw 111 | Engineering Drawing 1 | 0 | 3 | 1 |
| _____ | PE 100 | Physical Fitness | 0 | 2 | 2 |
| _____ | FCL 100 | Filipino Christian 1 | 3 | 0 | 3 |
| _____ | Hum 1 | Fundamentals of Logic | 3 | 0 | 3 |
| _____ | NSL | - | - | - | (3) |
| | | 16(2) | 8 | | 20(5) |

FIRST YEAR - SECOND SEMESTER

| | | | | | |
|-------|-------------|-----------------------------------|---|---|-------|
| _____ | Math 123 | Plane and Solid Analytic Geometry | 3 | 0 | 3 |
| _____ | Math 122 | Solid Mensuration | 2 | 0 | 2 |
| _____ | Engl 101 | Communication Skills | 3 | 0 | 3 |
| _____ | Chem 123 | Gen. & Inorganic Chem. 2 (lec) | 3 | 0 | 3 |
| _____ | Chem 123L | Gen. & Inorganic Chem. 2 (lab) | 0 | 3 | 1 |
| _____ | Draw 121 | Engineering Drawing 2 | 0 | 3 | 1 |
| _____ | PE 200 | Rhythmics | 0 | 2 | 2 |
| _____ | Soc Sci 003 | Psychology | 3 | 0 | 3 |
| _____ | FCL 200 | Filipino Christian 2 | 3 | 0 | 3 |
| _____ | NSL 2 | - | - | - | (3) |
| | | 17 | 8 | | 21(5) |

SECOND YEAR - FIRST SEMESTER

| | | | | | |
|-------|-----------|------------------------------------|----|---|----|
| _____ | Math 215 | Differential Calculus | 5 | 0 | 5 |
| _____ | Phys 213 | Physics 1 (lec) | 3 | 0 | 3 |
| _____ | Phys 213L | Physics 1 (lab) | 0 | 3 | 1 |
| _____ | Engl 200 | Technical Report Writing | 3 | 0 | 3 |
| _____ | CS 002 | Computer Fund. & Programming (lec) | 2 | 0 | 2 |
| _____ | CS 002L | Computer Fund. & Programming (lab) | 0 | 3 | 1 |
| _____ | Fil 113 | Sining ng Pakikipagtalastasan | 3 | 0 | 3 |
| _____ | PE 300 | Ind. / Dual Sports | 0 | 2 | 2 |
| _____ | FCL 300 | Filipino Christian 3 (Hum. 2) | 3 | 0 | 3 |
| _____ | Draw 211 | Engineering Drawing 3 | 0 | 3 | 1 |
| | | 19 | 11 | | 24 |

SECOND YEAR - SECOND SEMESTER

| | | | | | |
|-------|-----------|---------------------------------|----|---|----|
| _____ | Math 225 | Integral Calculus | 5 | 0 | 5 |
| _____ | Phys 223 | Physics 2 (lec) | 3 | 0 | 3 |
| _____ | Phys 223L | Physics 2 (lab) | 0 | 3 | 1 |
| _____ | Engl 223 | Public Speaking | 3 | 0 | 3 |
| _____ | Fil 123 | Panitikang Pilipino | 3 | 0 | 3 |
| _____ | PE 400 | Team Sports | 0 | 2 | 2 |
| _____ | FCL 400 | Filipino Christian 4 | 3 | 0 | 3 |
| _____ | NC 203 | Phil. Gov't. & New Constitution | 3 | 0 | 3 |
| | | Integral Calculus | 20 | 5 | 23 |

THIRD YEAR - FIRST SEMESTER

| COURSE NO. | COURSE DESCRIPTION | LEC (hrs) | LAB (hrs) | UNITS | |
|------------|--------------------|--------------------------------|--------------|----------|----------|
| _____ | Mech 315 | Engineering Mechanics | 5 | 0 | 5 |
| _____ | Hum 3 | Dev. of Western Thought | 3 | 0 | 3 |
| _____ | Math 313 | Differential Equations | 3 | 0 | 3 |
| _____ | CE 312 | Elementary Surveying (lec) | 2 | 0 | 2 |
| _____ | CE 312F | Elementary Surveying (field) | 0 | 6 | 2 |
| _____ | Geo 313 | Engineering Geology | 3 | 0 | 3 |
| _____ | EE 313 | Elementary Electrical Eng'g. | 3 | 0 | 3 |
| _____ | Rizal 003 | Rizal's Life, Works & Writings | 3 | 0 | 3 |
| _____ | FCL 5 | The Perpetualite: The Achiever | <u>3</u> | <u>0</u> | <u>3</u> |
| | | 25 | 6 | 27 | |

THIRD YEAR - SECOND SEMESTER

| | | | | | |
|-------|----------|------------------------------------|----------|----------|----------|
| _____ | Math 323 | Advanced Eng'g Math for CE | 3 | 0 | 3 |
| _____ | Mech 325 | Strength of Materials | 5 | 0 | 5 |
| _____ | CE 322 | Higher Surveying (lec) | 2 | 0 | 2 |
| _____ | CE 322F | Higher Surveying (field) | 0 | 6 | 2 |
| _____ | CE 323 | Environmental Science & Management | 3 | 0 | 3 |
| _____ | ME 313 | Thermodynamics | 3 | 0 | 3 |
| _____ | LRT 003 | Land Reform & Taxation | 3 | 0 | 3 |
| _____ | FCL 6 | The Perpetualite & Society | <u>3</u> | <u>0</u> | <u>3</u> |
| | | 22 | 6 | 24 | |

FOURTH YEAR - FIRST SEMESTER

| | | | | | |
|-------|-------------|----------------------------------------|----------|----------|----------|
| _____ | CE 413 | Structural Theory 1 (lec) | 2 | 0 | 2 |
| _____ | CE 413D | Structural Theory 1 (drafting) | 0 | 3 | 1 |
| _____ | CE 433 | Fluid Mechanics (lec) | 3 | 0 | 3 |
| _____ | CE 433L | Fluid Mechanics (lab) | 0 | 3 | 1 |
| _____ | CE 412 | Engineering Surveying (lec) | 2 | 0 | 2 |
| _____ | CE 412F | Engineering Surveying (field) | 0 | 3 | 1 |
| _____ | CE 432 | Const. Mat. & Testing (lec) | 3 | 0 | 3 |
| _____ | CE 432L | Const. Mat. & Testing (lab) | 0 | 3 | 1 |
| _____ | Stat 003 | Methods of Research (w/ Prob. & Stat.) | 3 | 0 | 3 |
| _____ | Soc Sci 403 | Sociology w/ Family Planning | <u>3</u> | <u>0</u> | <u>3</u> |
| | | 16 | 12 | 20 | |

FOURTH YEAR - SECOND SEMESTER

| | | | | | |
|-------|----------|---------------------------------|----------|----------|----------|
| _____ | CE 423 | Structural Theory 2 (lec) | 3 | 0 | 3 |
| _____ | CE 423D | Structural Theory 2 (drafting) | 0 | 3 | 1 |
| _____ | CE 443 | Highway & Transportation Eng'g. | 3 | 0 | 3 |
| _____ | CE 463 | Hydraulics (lec) | 3 | 0 | 3 |
| _____ | CE 463L | Hydraulics (lab) | 0 | 3 | 1 |
| _____ | EEco 003 | Engineering Economy | 3 | 0 | 3 |
| _____ | CE 483 | Soil Mechanics (lec) | 3 | 0 | 3 |
| _____ | CE 483L | Soil Mechanics (lab) | 0 | 3 | 1 |
| _____ | CE 422 | Earthquake Engineering | 2 | 0 | 2 |
| _____ | CE 403 | Hydrology | <u>3</u> | <u>0</u> | <u>3</u> |
| | | 20 | 9 | 23 | |

FIFTH YEAR - FIRST SEMESTER

| | | | | | |
|-------|----------|---------------------------------|----------|----------|----------|
| _____ | CE 513 | Structural Theory 2 (lec) | 3 | 0 | 3 |
| _____ | CE 513D | Structural Theory 2 (drafting) | 0 | 6 | 2 |
| _____ | CE 512 | Highway & Transportation Eng'g. | 2 | 0 | 2 |
| _____ | CE 512D | Hydraulics (lec) | 0 | 3 | 1 |
| _____ | Eman 003 | Hydraulics (lab) | 3 | 0 | 3 |
| _____ | CE 553 | Engineering Economy | 2 | 0 | 2 |
| _____ | CAD 002 | Soil Mechanics (lec) | 1 | 0 | 1 |
| _____ | CAD 002D | Soil Mechanics (lab) | 0 | 3 | 1 |
| _____ | CE 573 | Earthquake Engineering | 3 | 0 | 3 |
| _____ | CE 511 | Hydrology | 1 | 0 | 1 |
| _____ | CE 511L | Structural Theory 2 (lec) | <u>0</u> | <u>3</u> | <u>1</u> |
| | | Structural Theory 2 (drafting) | 15 | 15 | 20 |

FIFTH YEAR - SECOND SEMESTER

| | | | | | |
|-------|---------|---------------------------------|----------|----------|----------|
| _____ | CE 523 | CE Laws, Contracts, Ethics | 3 | 0 | 3 |
| _____ | CE 522 | Const. Proj. Mgt. (lec) | 2 | 0 | 2 |
| _____ | CE 522L | Const. Proj. Mgt. (lab) | 0 | 3 | 1 |
| _____ | CE 521L | Proj. Feasibility Study 2 (lab) | 0 | 3 | 1 |
| _____ | CE 543 | Steel Design (lec) | 3 | 0 | 3 |
| _____ | CE 543D | Steel Design (drafting) | 0 | 3 | 1 |
| _____ | CE 583 | Foundation Engineering | 3 | 0 | 3 |
| _____ | CE 563 | Pre-Stressed Concrete | 3 | 0 | 3 |
| _____ | CE 581 | Practicum | <u>0</u> | <u>3</u> | <u>1</u> |
| | | | 14 | 12 | 18 |