



CURRICULUM Bachelor of Science in Petroleum Engineering (BSPetE) Academic Year 2018-2019 Reference CMOs: CMO No. 4 s. 2018 and CMO No. 20, s. 2013

Curriculum Description

Petroleum Engineering is a field of engineering concerned with the activities related to the production of hydrocarbons, which can be either crude oil or natural gas. Exploration and production are deemed to fall within the upstream sector of the oil and gas industry.

Program Educational Objectives of Petroleum Engineering

The petroleum engineering alumni three to five years after graduation shall:

- 1. Successfully practice in upstream and downstream petroleum industry and academe.
- 2. Promote professionalism in petroleum engineering practice.

Student Outcomes

The following skills, knowledge, and behaviors are expected to be attained by students as they progress through the program:

- a. Ability to apply knowledge of mathematics and science to solve engineering problems.
- b. Ability to design and conduct experiments, as well as to analyze and interpret data.
- c. Ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability, in accordance with standards.
- d. Ability to function on multidisciplinary teams.
- e. Ability to identify, formulate, and solve engineering problems.
- f. Understanding of professional and ethical responsibility.
- g. Ability to communicate effectively.
- h. Broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- i. Recognition of the need for, and an ability to engage in life-long learning.
- j. Knowledge of contemporary issues.
- k. Ability to use techniques, skills, and modern engineering tools necessary for engineering practice.
- 1. Knowledge and understanding of engineering and management principles as a member and leader in a team, to manage projects and in multidisciplinary environments.

CURRICULUM COMPONENTS

| | Number of H | Credit Units | |
|--|-------------|--------------|--------------|
| Classification/ Field / Course | Lec | Lab | Credit Units |
| I. TECHNICAL COURSES | | • | |
| A. Mathematics | | | |
| Differential Calculus | 3 | 0 | 3 |
| Integral Calculus | 3 | 0 | 3 |
| Differential Equations | 3 | 0 | 3 |
| Engineering Data Analysis | 3 | 0 | 3 |
| Numerical Methods and Analysis | 2 | 3 | 3 |
| Sub-Total | 14 | 3 | 15 |
| B. Natural/Physical Sciences | | | |
| General Chemistry | 3 | 3 | 4 |
| Physics 1 | 3 | 3 | 4 |
| Modern Biology | 2 | 3 | 3 |
| Sub-Total | 8 | 9 | 11 |
| C. Basic Engineering Sciences | | - | |
| Engineering Drawing | 0 | 3 | 1 |
| Computer Programming 1 | 0 | 3 | 1 |
| Engineering Mechanics | 3 | 0 | 3 |
| Fundamentals of Deformable Bodies | 3 | 0 | 3 |
| Engineering Economics | 3 | 0 | 3 |
| Technopreneurship | 3 | 0 | 3 |
| Introduction to Engineering | 0 | 3 | 1 |
| Environmental Science and Engineering | 3 | 0 | 3 |
| Sub-Total | 15 | 9 | 18 |
| D. Allied Courses | 15 | 7 | 10 |
| Basic Electrical Engineering | 2 | 3 | 3 |
| Instrumentation and Control Engineering | 2 | 3 | 3 |
| v v | 2 | 3 | 3 |
| Basic Organic Chemistry DC and AC Machinery | | | |
| | 2 | 3 | 3 |
| Physical Chemistry | 2 | 3 | 3 |
| Introduction to Unit Operation | 3 | 0 | 3 |
| Thermodynamics | 3 | 0 | 3 |
| Fluid Mechanics | 3 | 0 | 3 |
| Sub-Total | 19 | 15 | 24 |
| E. Fundamental Petroleum Engineering Courses | | | |
| Introduction to Oil and Gas Industry and Sustainable Development | 3 | 0 | 3 |
| Reservoir Geosciences | 3 | 0 | 3 |
| Petroleum Geology | 2 | 3 | 3 |
| Reservoir Petrophysics with Hydrocarbon Phase Analysis | 3 | 3 | 4 |
| Advance Mathematics for PetE | 3 | 0 | 3 |
| Formation Evaluation | 2 | 3 | 3 |
| Reservoir Geomechanics | 2 | 3 | 3 |
| Fuels and Combustion | 3 | 0 | 3 |
| Basic Occupational Safety and Health | 3 | 0 | 3 |
| Project Management for PetE | 3 | 0 | 3 |
| Reservoir Modelling and Simulation | 2 | 3 | 3 |
| Qualitative and Quantitative Chemistry | 2 | 3 | 3 |
| Process Plant Engineering | 3 | 0 | 3 |
| Material Science and Engineering | 3 | 0 | 3 |
| On the-Job-Training | 320 | 0 hrs | 4 |
| Sub-Total | 37 | 18 | 47 |

| F. Professional Petroleum Engineering Courses | | | | | |
|--|-----|-----------------|----------|--|--|
| Reservoir Engineering 1 | 2 | 3 | 3 | | |
| Reservoir Engineering 2 | 2 | 3 | 3 | | |
| Production Engineering 1 | 2 | 3 | 3 | | |
| Production Engineering 2 | 2 | 3 | 3 | | |
| Well Test Analysis | 3 | 0 | 3 | | |
| Drilling Engineering | 2 | 3 | 3 | | |
| Drilling Technology | 2 | 3 | 3 | | |
| PetE Project Study 1 | 0 | 3 | 1 | | |
| PetE Project Study 2 | 0 | 3 | 1 | | |
| Plant Design | 2 | 3 | 3 | | |
| Petroleum Economics | 2 | 0 | 2 | | |
| Research Methods | 3 | 0 | 3 | | |
| Sub-Total | 22 | 27 | <u> </u> | | |
| TOTAL TECHNICAL COURSES | 115 | <u> </u> | 146 | | |
| A. General Education Courses | 115 | 01 | 140 | | |
| Purposive Communication | 3 | 0 | 3 | | |
| Mathematics in the Modern World | 3 | 0 | | | |
| | 3 | - | 3 | | |
| Understanding the Self | | 0 | | | |
| Art Appreciation | 3 | 0 | 3 | | |
| Ethics | 3 | 0 | 3 | | |
| Readings in Philippine History | 3 | 0 | 3 | | |
| Contemporary World | 3 | 0 | 3 | | |
| Science, Technology and Society | 3 | 0 | 3 | | |
| Sub-Total | 24 | 0 | 24 | | |
| B. General Education Elective and Mandated Courses | 2 | 0 | | | |
| Kontekstwalisadong Komunikasyon sa Filipino | 3 | 0 | 3 | | |
| Filipino sa Iba't Ibang Disiplina | 3 | 0 | 3 | | |
| ASEAN Literature | 3 | 0 | 3 | | |
| Life and Works of Rizal | 3 | 0 | 3 | | |
| Sub-Total | 12 | 0 | 12 | | |
| C. Physical Education | | - | | | |
| PE 1,2,3,4 (2 units each) | 8 | 0 | 8 | | |
| Sub-Total | 8 | 0 | 8 | | |
| D. National Service Training Program | | - | | | |
| NSTP 1&2 | 6 | 0 | 6 | | |
| Sub-Total | 6 | 0 | 6 | | |
| TOTAL NON-TECHNICAL COURSES | 50 | 0 | 50 | | |
| GRAND TOTAL | 165 | 81 | 196 | | |
| | | | | | |
| SUMMARY | | | | | |
| Courses | | Number of Units | | | |
| I. Technical Courses | | | | | |
| A. Mathematics | | 15 | | | |
| B. Natural and Physical Sciences | | 11 | | | |
| C. Basic Engineering Sciences | | 18 | | | |
| D. Allied Courses | 24 | | | | |
| E. Fundamental Courses | 47 | | | | |
| F. Professional Petroleum Engineering Courses | | 28 | | | |
| II. Non-Technical Courses | | | | | |
| A. General Education Courses | | 24 | | | |
| B. General Education Elective/Mandated Courses | | 12 | | | |
| C. Physical Education and NSTP | | 14 | | | |
| GRAND TOTAL | | 193 | | | |
| | | | | | |

PROGRAM OF STUDY

| | FIRST Y First Sem | | | | | |
|---|--|--|--|--|---|--------------------------|
| | First Sen | | Hour/s | | | |
| Course Code | Course Title | No. of Hour/s | | Unit/s | Pre-requisite/s | Co-requisite/ |
| GEd 102 | Mathematics in the Modern World | Lec 3 | Lab | 2 | | |
| - | | 3 | 0 | 3 | | |
| GEd 105 | Readings in Philippine History | 3 | - | 3 | | |
| GEd 101 GEd 106 | Understanding the Self | 3 | 0 | | | |
| | Purposive Communication Differential Calculus | | 0 | 3 | | |
| MATH 401 | | 3 | 0 | 3 | | |
| ENGG 401 | Introduction to Engineering | 0 | 3 | 1 | | |
| SCI 401 | General Chemistry | 3 | 3 | 4 | | |
| PE 101 | Physical Fitness, Gymnastics and Aerobics | 2 | 0 | 2 | | |
| NSTP 111 | National Service Training Program 1 | 3 | 0 | 3 | | |
| | Total | 23 | 6 | 25 | | |
| | FIRST Y | | | | | |
| | Second Sec | | | | | |
| Course Code | Course Title | | Hour/s | Unit/s | Pre-requisite/s | Co-requisite |
| | | Lec | Lab | | - | eo requisite |
| MATH 402 | Integral Calculus | 3 | 0 | 3 | MATH 401 | |
| SCI 403 | Physics 1 | 3 | 3 | 4 | MATH 401 | MATH 402 |
| GEd 104 | The Contemporary World | 3 | 0 | 3 | | |
| GEd 109 | Science, Technology and Society | 3 | 0 | 3 | | |
| GEd 108 | Art Appreciation | 3 | 0 | 3 | | |
| CpE 401 | Computer Programming 1 | 0 | 3 | 1 | | |
| PE 102 | Rhythmic Activities | 2 | 0 | 2 | PE 101 | |
| NSTP 121 | National Service Training Program 2 | 3 | 0 | 3 | NSTP 1 | |
| ENGG 402 | Engineering Drawing | 0 | 3 | 1 | | |
| | Total | 20 | 9 | 23 | | |
| | FIRST Y | -• | , | | | |
| | Midter | | | | | |
| | | | Hour/s | | | |
| Course Code | Course Title | Lec | Lab | Unit/s | Pre-requisite/s | Co-requisite |
| GEd 107 | Ethics | | | 2 | | |
| | Life and Works of Rizal | 3 | 0 | 3 | | |
| GEd 103 | | | 0 | | | |
| SCI 402 | Modern Biology | 2 | 3 | 3 | | |
| | Total | 8 | 3 | 9 | | |
| | SECOND | | | | | |
| | First Sem | | TT / | | | [|
| Course Code | Course Title | | Hour/s | Unit/s | Pre-requisite/s | Co-requisite |
| | | Lec | Lab | | | |
| PetE 401 | Introduction to Oil and Gas Industry and Sustainable | 3 | 0 | 3 | ENGG 401 | |
| | Development | | Ů | - | Enterent | |
| PetE 402 | Reservoir Geosciences | 3 | 0 | 3 | | PetE 401 |
| ENGG 409 | Engineering Mechanics | 3 | 0 | 3 | SCI 403 | |
| ME 431 | Thermodynamics | 3 | 0 | 3 | SCI 403, MATH 402 | |
| EE 419 | | | | | G GT 402 3 4 1 TTT 402 | |
| EE 419 | Basic Electrical Engineering | 2 | 3 | 3 | SCI 403, MATH 402 | |
| ChE 419 | Basic Electrical Engineering Qualitative and Quantitative Chemistry | 2 2 | 3 | 3 | SCI 403, MATH 402 SCI 401 | |
| | | | | | | |
| ChE 420 PE 103 | Qualitative and Quantitative Chemistry Individual and Dual Sports | 2 2 | 3 0 | 3 2 | SCI 401 | |
| ChE 420 PE 103 Fili 101 | Qualitative and Quantitative Chemistry Individual and Dual Sports Kontekstwalisadong Komunikasyon sa Filipino | 2 | 3 0 0 | 3 2 3 | SCI 401 PE 101 | |
| ChE 420 PE 103 | Qualitative and Quantitative Chemistry Individual and Dual Sports Kontekstwalisadong Komunikasyon sa Filipino Differential Equations | 2 2 3 3 | 3 0 0 0 | 3 2 3 3 | SCI 401 | |
| ChE 420 PE 103 Fili 101 | Qualitative and Quantitative Chemistry Individual and Dual Sports Kontekstwalisadong Komunikasyon sa Filipino Differential Equations Total | 2 2 3 3 24 | 3 0 0 | 3 2 3 | SCI 401 PE 101 | |
| ChE 420 PE 103 Fili 101 | Qualitative and Quantitative Chemistry Individual and Dual Sports Kontekstwalisadong Komunikasyon sa Filipino Differential Equations Total SECOND | 2 2 3 3 24 YEAR | 3 0 0 0 | 3 2 3 3 | SCI 401 PE 101 | |
| ChE 420 PE 103 Fili 101 MATH 404 | Qualitative and Quantitative Chemistry Individual and Dual Sports Kontekstwalisadong Komunikasyon sa Filipino Differential Equations Total SECOND Second Sec | 2 2 3 3 24 YEAR mester | 3 0 0 0 6 | 3 2 3 3 26 | SCI 401 PE 101 MATH 402 | |
| ChE 420 PE 103 Fili 101 MATH 404 | Qualitative and Quantitative Chemistry Individual and Dual Sports Kontekstwalisadong Komunikasyon sa Filipino Differential Equations Total SECOND | 2 2 3 24 YEAR mester No. of | 3 0 0 6 Hour/s | 3 2 3 3 | SCI 401 PE 101 | Co-requisite |
| ChE 420 PE 103 Fili 101 MATH 404 Course Code | Qualitative and Quantitative Chemistry Individual and Dual Sports Kontekstwalisadong Komunikasyon sa Filipino Differential Equations Total SECOND Second Sec Course Title | 2 3 3 24 YEAR mester No. of Lec | 3 0 0 6 Hour/s Lab | 3 2 3 3 26 Unit/s | SCI 401 PE 101 MATH 402 Pre-requisite/s | Co-requisite |
| ChE 420 PE 103 Fili 101 MATH 404 | Qualitative and Quantitative Chemistry Individual and Dual Sports Kontekstwalisadong Komunikasyon sa Filipino Differential Equations Total SECOND Second Second Sec | 2 2 3 24 YEAR mester No. of | 3 0 0 6 Hour/s | 3 2 3 3 26 | SCI 401 PE 101 MATH 402 | Co-requisite |
| ChE 420 PE 103 Fili 101 MATH 404 Course Code | Qualitative and Quantitative Chemistry Individual and Dual Sports Kontekstwalisadong Komunikasyon sa Filipino Differential Equations Total SECOND Second Se Course Title Petroleum Geology Reservoir Petrophysics with Hydrocarbon Phase | 2 3 3 24 YEAR mester No. of Lec | 3 0 0 6 Hour/s Lab | 3 2 3 3 26 Unit/s | SCI 401 PE 101 MATH 402 Pre-requisite/s | Co-requisite PetE 403 |
| ChE 420 PE 103 Fili 101 MATH 404 Course Code PetE 403 PetE 404 | Qualitative and Quantitative Chemistry Individual and Dual Sports Kontekstwalisadong Komunikasyon sa Filipino Differential Equations Total SECOND Second Se Course Title Petroleum Geology Reservoir Petrophysics with Hydrocarbon Phase Analysis | 2 3 3 24 YEAR mester No. of Lec 2 3 | 3 0 0 6 Hour/s Lab 3 3 | 3 2 3 26 Unit/s 3 4 | SCI 401 PE 101 MATH 402 Pre-requisite/s PetE 402 | |
| ChE 420 PE 103 Fili 101 MATH 404 Course Code PetE 403 PetE 404 PetE 405 | Qualitative and Quantitative Chemistry Individual and Dual Sports Kontekstwalisadong Komunikasyon sa Filipino Differential Equations Total SECOND Second Se Course Title Petroleum Geology Reservoir Petrophysics with Hydrocarbon Phase Analysis Advanced Mathematics for PetE | 2 3 3 24 YEAR mester No. of Lec 2 3 3 | 3 0 0 6 Hour/s Lab 3 3 0 | 3 2 3 26 Unit/s 3 4 3 | SCI 401 PE 101 MATH 402 Pre-requisite/s PetE 402 MATH 404 | |
| ChE 420 PE 103 Fili 101 MATH 404 Course Code PetE 403 PetE 404 PetE 405 EE 422 | Qualitative and Quantitative Chemistry Individual and Dual Sports Kontekstwalisadong Komunikasyon sa Filipino Differential Equations Total SECOND Second Second Sec | 2 3 3 24 YEAR mester No. of Lec 2 3 3 2 | 3 0 0 6 Hour/s Lab 3 3 0 3 | 3 2 3 26 Unit/s 3 4 3 3 | SCI 401 PE 101 MATH 402 Pre-requisite/s PetE 402 MATH 404 EE 419 | |
| ChE 420 PE 103 Fili 101 MATH 404 Course Code PetE 403 PetE 404 PetE 405 EE 422 ChE 432 | Qualitative and Quantitative Chemistry Individual and Dual Sports Kontekstwalisadong Komunikasyon sa Filipino Differential Equations Total SECOND Second Ser Course Title Petroleum Geology Reservoir Petrophysics with Hydrocarbon Phase Analysis Advanced Mathematics for PetE DC and AC Machinery Basic Organic Chemistry | 2 3 3 24 YEAR mester 2 3 3 2 2 | 3 0 0 6 Hour/s Lab 3 3 0 3 3 | 3 2 3 26 Unit/s 3 4 3 3 3 | SCI 401 PE 101 MATH 402 Pre-requisite/s PetE 402 MATH 404 | |
| ChE 420 PE 103 Fili 101 MATH 404 Course Code PetE 403 PetE 403 PetE 404 PetE 405 EE 422 ChE 432 Fili 102 | Qualitative and Quantitative Chemistry Individual and Dual Sports Kontekstwalisadong Komunikasyon sa Filipino Differential Equations Total SECOND Second Set Course Title Petroleum Geology Reservoir Petrophysics with Hydrocarbon Phase Analysis Advanced Mathematics for PetE DC and AC Machinery Basic Organic Chemistry Filipino sa Iba't Ibang Disiplina | 2 3 3 24 YEAR mester 2 3 3 2 2 3 3 | 3 0 0 6 Hour/s Lab 3 3 0 3 0 | 3 2 3 26 Unit/s 3 4 3 3 3 3 | SCI 401 PE 101 MATH 402 Pre-requisite/s PetE 402 MATH 404 EE 419 SCI 401 | |
| ChE 420 PE 103 Fili 101 MATH 404 Course Code PetE 403 PetE 404 PetE 405 EE 422 ChE 432 Fili 102 PE 104 | Qualitative and Quantitative Chemistry Individual and Dual Sports Kontekstwalisadong Komunikasyon sa Filipino Differential Equations Total SECOND Second Second Sec | 2 2 3 24 YEAR mester No. of Lec 2 3 2 3 2 2 3 2 | 3 0 0 6 Hour/s Lab 3 3 0 3 3 | 3 2 3 26 Unit/s 3 4 3 3 3 2 | SCI 401 PE 101 MATH 402 Pre-requisite/s PetE 402 MATH 404 EE 419 SCI 401 PE 101 | |
| ChE 420 PE 103 Fili 101 MATH 404 Course Code PetE 403 PetE 403 PetE 404 PetE 405 EE 422 ChE 432 Fili 102 | Qualitative and Quantitative Chemistry Individual and Dual Sports Kontekstwalisadong Komunikasyon sa Filipino Differential Equations Total SECOND Second Set Course Title Petroleum Geology Reservoir Petrophysics with Hydrocarbon Phase Analysis Advanced Mathematics for PetE DC and AC Machinery Basic Organic Chemistry Filipino sa Iba't Ibang Disiplina | 2 3 3 24 YEAR mester 2 3 3 2 2 3 3 | 3 0 0 6 Hour/s Lab 3 3 0 3 0 | 3 2 3 26 Unit/s 3 4 3 3 3 3 | SCI 401 PE 101 MATH 402 Pre-requisite/s PetE 402 MATH 404 EE 419 SCI 401 | Co-requisite PetE 403 |

| | THIRD | | | | | |
|-------------|---|--------|---------------|----------------|---------------------|----------------|
| | First Se | mester | | | | |
| Course Code | Course Title | | No. of Hour/s | | Dra requisite/a | Co requisited |
| | Course Title | Lec | Lab | Unit/s | Pre-requisite/s | Co-requisite/s |
| ENGG 410 | Fundamentals of Deformable Bodies | 3 | 0 | 3 | ENGG 409 | |
| ENGG 416 | Research Methods | 3 | 0 | 3 | MATH 403 | |
| ENGG 412 | Material Science and Engineering | 3 | 0 | 3 | SCI 401 | |
| ME 406 | Fluid Mechanics | 3 | 0 | 3 | ME 431 | |
| Litr 102 | ASEAN Literature | 3 | 0 | 3 | | |
| ChE 431 | Physical Chemistry | 2 | 3 | 3 | ChE 420 | |
| PetE 406 | Reservoir Engineering 1 | 2 | 3 | 3 | PetE 404 | |
| PetE 407 | Formation Evaluation | 2 | 3 | 3 | PetE 404 | PetE 408 |
| PetE 408 | Drilling Technology | 2 | 3 | 3 | PetE 403 | ENGG 410 |
| | | 23 | 12 | 27 | | |
| | THIRD | YEAR | | | | |
| | Second S | | | | | |
| Course Code | Course Title | No. of | Hour/s | Unit/s | Pre-requisite/s | Co-requisite/ |
| | | Lec | Lab | Cintrs | • | eo requisite, |
| PetE 409 | Reservoir Geomechanics | 2 | 3 | 3 | PetE 403 | |
| PetE 410 | Reservoir Engineering 2 | 2 | 3 | 3 | PetE 406, PetE 407 | |
| PetE 411 | Production Engineering 1 | 2 | 3 | 3 | PetE 404 | |
| PetE 412 | Fuels and Combustion | 3 | 0 | 3 | ME 431 | |
| PetE 413 | PetE Project Study 1 | 0 | 3 | 1 | ENGG 416 | |
| ENGG 415 | Numerical Method and Analysis | 2 | 3 | 3 | MATH 404, CpE 401 | |
| ICE 420 | Instrumentation and Control Engineering | 2 | 3 | 3 | EE 419 | |
| ChE 436 | Introduction to Unit Operation | 3 | 0 | 3 | ChE 431 | |
| | Tota | | 18 | 22 | | |
| | THIRD | YEAR | | | | |
| | Midt | erm | | - | | |
| Course Code | Course Title | | Hour/s | Unit/s | /s Pre-requisite/s | Co-requisite/ |
| | | Lec | Lab | | | co requisito/ |
| ENGG 411 | Basic Occupational Safety and Health | 3 | 0 | 3 | | |
| ENGG 413 | Environmental Science and Engineering | 3 | 0 | 3 | SCI 401 | |
| ENGG 404 | Engineering Economics | 3 | 0 | 3 | MATH 402 | |
| | Tota | - | 0 | 9 | | |
| | FOURTH | | | | | |
| | First Se | mester | | | | |
| Course Code | Course Title | No. of | No. of Hour/s | | Pre-requisite/s | Co-requisite/s |
| | | Lec | Lab | Unit/s | • | eo requisiter |
| PetE 421 | Well Test Analysis | 3 | 0 | 3 | 4th year Standing | |
| PetE 415 | Project Management for PetE | 3 | 0 | 3 | 4th year Standing | |
| PetE 416 | Reservoir Modelling and Simulation | 2 | 3 | 3 | PetE 410, ENGG | |
| | ç | | | | 415, CpE 401 | |
| PetE 417 | Process Plant Engineering | 3 | 0 | 3 | ICE 420, ChE 436 | |
| PetE 418 | Production Engineering 2 | 2 | 3 | 3 | PetE 411 | |
| PetE 419 | Drilling Engineering | 2 | 3 | 3 | PetE 407, PetE 408 | |
| PetE 422 | Petroleum Economics | 2 | 0 | 2 | 4th year Standing | |
| | Tota | | 9 | 20 | | |
| | FOURTH | | | | | |
| | Second S | | | 1 | r | |
| Course Code | Course Title | | of Hour/s | | Pre-requisite/s | Co-requisite/s |
| | | Lec | Lab | Unit/s | | so equisite/ |
| PetE 420 | Plant Design | 2 | 3 | 3 | PetE 415, PetE 417, | |
| | ç | | | | PetE 418, PetE 419 | |
| ENGG 405 | Technopreneurship | 3 | 0 | 3 | 4th year Standing | |
| ENGG 417 | On-the-Job Training | | 20 | 4 | 4th year Standing | |
| | | | | | | 1 |
| PetE 414 | PetE Project Study 2 | 0 | 3 | 1 | Graduating | |
| | PetE Project Study 2 Tota GRAND TOTAL UNITS | | 3 6 81 | 1 11 196 | Graduating | |