

# Chemical Engineering - Petroleum Engineering, B.S.

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**Plan Name** Chemical Engineering - Petroleum Engineering, B.S.  
**Assigned To** Tommy Trojan  
**USC ID**  
**Created By** Mork Family Department  
**Primary**   
**Total Units** 133.00

## Personal Program Plan Terms

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### Freshman Year - Semester 1

16 Units

- CHEM-105A General Chemistry (4.0 Units)
  - GE-A The Arts (4.0 Units)
  - MATH-125 Calculus I (4.0 Units)
  - WRIT-150 Writing and Critical Reasoning--Thematic Approaches (4.0 Units)
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### Freshman Year - Semester 2

16 Units

- MATH-126 or MATH-129 - Calculus II (4.0 Units)
  - CHE-120 Introduction to Chemical Engineering (4.0 Units)
  - CHEM-105B General Chemistry (4.0 Units)
  - GESM-120 Seminar in Humanistic Inquiry (4.0 Units)
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### Sophomore Year - Semester 1

16 Units

- MATH-226 or MATH-229 - Calculus III (4.0 Units)
  - CHE-305 Numerical and Statistical Analysis for Chemical Engineers (4.0 Units)
  - CHE-330 Chemical Engineering Thermodynamics (4.0 Units)
  - PHYS-151 Fundamentals of Physics I: Mechanics and Thermodynamics (4.0 Units)
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### Sophomore Year - Semester 2

18 Units

- CHE-350 Introduction to Separation Processes (4.0 Units)
- CHE-444A Chemical Engineering Laboratory (2.0 Units)
- CHEM-322A Organic Chemistry (4.0 Units)
- GE-C Social Analysis (4.0 Units)
- MATH-245 Mathematics of Physics and Engineering I (4.0 Units)

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## Junior Year - Semester 1

18 Units

- PTE 463 Introduction to Transport Processes in Porous Media (CHE Elective #1 Rq) (4.0 Units)
- CHE-443 Chemical Engineering Fluid Mechanics (4.0 Units)
- CHE-444B Chemical Engineering Laboratory (2.0 Units)
- CHEM-430 Physical Chemistry: Thermodynamics and Kinetics (4.0 Units)
- WRIT-340 Advanced Writing for Engineers Topic (4.0 Units)

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## Junior Year - Semester 2

18 Units

- PTE 464 Modeling & Simulation of Subsurface Flow Systems (CHE Elective #2 Reqr) (4.0 Units)
- CHE-442 Chemical Reactor Design (4.0 Units)
- CHE-444C Chemical Engineering Laboratory (2.0 Units)
- CHE-447 Heat and Mass Transfer in Chemical Engineering Processes (4.0 Units)
- GE-C & GE-H Social Analysis and Traditions and Historical Foundations (p) (4.0 Units)

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## Senior Year - Semester 1

15 Units

- PTE 461 Formation Data Sensing with Well Logs (CHE Elective #3 -Required) (4.0 Units)
- PTE 465 Drilling Technology and Subsurface Methods (CHE Elective #4 - Required) (3.0 Units)
- CHE-460 Chemical Process Dynamics and Control (4.0 Units)
- CHE-485 Computer-Aided Chemical Process Design (4.0 Units)

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## Senior Year - Semester 2

16 Units

- CHE-480 Chemical Process and Plant Design (4.0 Units)
- GE-B & GE-G Humanistic Inquiry and Equity in a Diverse World (w) (4.0 Units)
- GE-D Life Sciences (4.0 Units)
- PHYS-152 Fundamentals of Physics II: Electricity and Magnetism (4.0 Units)

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This is a copy of a plan you created with your advisor. Go to Advise USC to refer to the plan and any related advising notes.