

Bridging Program for Petroleum Engineering MS Candidates

Many students have recognized the value of a MS in Petroleum Engineering but do not have an engineering background – specifically, they do not have a BS in Engineering. Some students have an engineering background but may wish to petition to waive the GRE. This is particularly true for engineering graduates who have been in the work force or away from a formal academic environment for some time. How can you overcome this?

The attached table is the current plan to bridge this gap; to provide the opportunity for a petroleum engineering advanced degree. In developing these requirements it was important to keep in mind the underlying course work that is commensurate with success in engineering, yet balance this with an opportunity to bridge this gap in a reasonable period of time.

Keep in mind the following:

- You must have an undergraduate degree from an accredited college.
- You must meet the academic standards specified by the [Graduate School](#) and specified for this degree.
- You may need to take additional courses as specified in the attached table and receive at least a GPA of 3.0 in each of them.
- The three Chemical Engineering courses that are considered fundamental to this bridging program are offered in the fall term. The Department of Chemical Engineering is considering offering these courses as Distance Learning during off-cycle times (i.e., in semesters when they are not offered in a classroom environment).

We will evaluate each case individually. If you have any questions, please contact Rachelle Reed at 801-587-3610 or rachelle@chemeng.utah.edu or John McLennan at 801-587-7925 or jmclennan@egi.utah.edu.

Bridging Coursework and Related Requirements

Category	I	II	III	IV
Previous Degree	Engineering	Physical and Life Sciences and Mathematics: Geology, Chemistry, Physics...	Business, Architecture, Geography ...	All Others
Degree Awarded (Date)	May impact requirement for GRE	May impact course requirements	May impact course requirements	May impact course requirements
GRE Required	Yes- Some exceptions may be allowed	Yes	Yes – May impact courses	Yes - May impact courses
Employment	May impact requirement for GRE	May impact course requirements	May impact course requirements	May impact course requirements
Mathematics Competency		Calculus and differential equations competency desired; required math courses may vary depending on B.S. coursework	Calculus and differential equations competency desired; required math courses may vary depending on B.S. coursework	Calculus and differential equations competency desired; required math courses may vary depending on B.S. coursework.
Science Competency		College-level chemistry and physics competency required. Students may have to fulfill science prerequisites for engineering courses required in engineering competency.	College-level chemistry and physics competency required. Students may have to fulfill science prerequisites for engineering courses required in engineering competency.	College-level chemistry and physics competency required. Students may have to fulfill science prerequisites for engineering courses required in engineering competency.
Engineering Competency		CH EN 3353 Fluid Mechanics CH EN 3453 Heat Transfer CH EN 3853 Thermodynamics II	CH EN 3353 Fluid Mechanics CH EN 3453 Heat Transfer CH EN 3853 Thermodynamics II	CH EN 3353 Fluid Mechanics CH EN 3453 Heat Transfer CH EN 3853 Thermodynamics II
Comments		Courses required prior to admittance to the Masters of Petroleum Engineering Program will be structured based on courses previously taken, type of work and work experience and other considerations such as GRE scores	Courses required prior to admittance to the Masters of Petroleum Engineering Program will be structured based on courses previously taken, type of work and work experience and other considerations such as GRE scores	Courses required prior to admittance to the Masters of Petroleum Engineering Program will be structured based on courses previously taken, type of work and work experience and other considerations such as GRE scores