

**PET 312**  
**Transport Phenomena, Spring 2013**  
**Student Survey**

**1. This course may require pre-requisites, co-requisites or assumes that you acquired and digested the material covered in some of the courses as listed below so that you will not have a difficulty following and applying the material taught in this course as listed below. On a scale of 1 to 5 (1 being strongly disagree and 5 being strongly agree), evaluate these pre-requisites.**

	MAT 101	MAT 202	TER201	AKM204			
Helped me understand fundamentals in <b>PET 312</b>							
Could clearly relate the material in this class <b>PET 312</b>							
Overall, this course is a good building block for <b>PET 312</b>							

**2. List any prior courses, other than the above, you found useful in understanding the concepts in PET 312.**

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**3. Evaluate the usefulness of course material (1 being the least useful and 5 being the most useful, 0 if not applicable).**

Class notes/slides/reading assignments	
Use of internet sources (Ninova, course web pages and other related internet sites)	
Use of computers and software as a teaching aid to enhance the class material	
Homework problems and their solutions	
Quizzes and quiz solutions	
Midterms and their solutions	
Physical concepts used in explaining class material clearly	

**4. What additional background would have been useful in completing this course e.g., additional math courses, physical science courses, petroleum engineering courses, etc.)**

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**5. Teacher's Evaluation (on a scale of 5; 1 being infrequently and 5 being almost always).**

<b>Instructor</b> showed high level of performance in the class	
<b>Instructor's</b> attendance to the class	
<b>Instructor</b> encouraged the students to ask questions, to make comments, etc.	
<b>Instructor</b> showed respect for students	
<b>Instructor</b> presented course content clearly	
<b>Instructor</b> was timely returning graded material	
<b>Instructor</b> was accessible outside of class	
<b>Instructor</b> was prepared for class	
<b>Instructor's</b> course plan was consistent with course objectives	
<b>Instructor</b> assigned grades in an unbiased way	

6. Student's Evaluation (on a scale of 5; 1 being infrequently and 5 being almost always).		
Student attended the class		
Student worked hard for this class		
Student prepared for this class		
Student found the course material to be interesting		
Student found the course material to be difficult		
7. What topics of this course are covered in prior courses?		
Topics	Yes / No	Which course
Introduction to Fluid Mechanics		
Fluid Statics		
Bernoulli, Energy, and Momentum Equations		
Flow in Pipes		
Mechanisms of Heat Transfer		
Steady Heat Conduction		
Forced and Natural Convections		
Radiation Heat Transfer		
Mass transfer in flow systems		
8. List any topics (listed in item 7 above) not covered in PET 312		
9. Do you believe that the following overall course objectives/outcomes, as stated, are met in this course?		
Objectives/Outcomes	Yes / No	
Setup balances for conservation of momentum, energy, and mass ( Setup microscopic and macroscopic balances related to transport phenomena )		
Define and solve the fluid flow problems, especially in pipe flow		
Learn the principles of heat transfer mechanisms and use them when they are needed to be applied		
Define, analyze, and solve the problems given in fluid flow, heat and mass transfer for some special applications		
10. Evaluate at what level you have gained the following outcomes (1 being the least useful and 5 being the most useful).		
Understand physical/mathematical models and assumptions behind systems, components and processes		
Design experiments, systems, components and process		
Use software(Word,Excel,MathLab, etc.) for analyzing, interpreting and presenting data		
11. How would you rate the contribution of this course in your overall petroleum/natural gas engineering education at ITU. Please just simply give a grade between 1 and 5 (1 being the least useful and 5 being the most useful).		

<p><b>12. Please provide below further comments and suggestions, if any, that you may have about the course content, insructor, course assistant, etc.</b></p> <div style="height: 100px;"></div>
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