

ROY G. PERRY COLLEGE OF ENGINEERING
MECHANICAL ENGINEERING DEPARTMENT
PRAIRIE VIEW A&M UNIVERSITY

ASSESSMENT REPORT COVER PAGE

MCEG 2301 THERMODYNAMICS 1

FALL 2021 SEMESTER

NAME OF INSTRUCTOR: Dr. Shahin Shafiee

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Detailed Course Syllabus
(Distributed to Students at the beginning of the Semester)

**MCEG 2301 Thermodynamics 1
Fall 2021**

Instructor:	Dr. Shafiee
Section # and CRN:	MCEG 2301 – P03 (CRN: 16912) and P83 (CRN:16916)
Office Location:	S.R.Collins Engineering Building, Room 307
Office Phone:	936-261-9792
Email Address:	shshafiee@pvamu.edu
Office Hours:	MW 8:00-9:00 am, 10:00-11:00 am, 12:00-1:00 pm
Mode of Instruction:	Face-to-face
Course Location:	Sam R Collins Engr Tech Bldg 209 (P03) and Sam R Collins Engr Tech Bldg 211 (P83)
Class Days & Times:	MWF 9:00-9:50 am (P03) – W 5:00-5:50 pm (P83)
Catalog Description:	MCEG 2301. Thermodynamics 1. (0-3) Credit 3 semester hour. First Law, transformation of energy, theoretical limitations, Second Law, absolute temperature, entropy, and available energy, properties of gases, liquids, and vapors, and irreversibility.
Prerequisites:	MCEG 2414 (Old MATH 2024) and PHYS 2325 (Old PHYS 2513)
Co-requisites:	None
Required Text(s):	Thermodynamics, 9 th edition, Yunus Cengel, Michael A. Boles and Mehmet Kanoglu, 2019, McGraw Hill: ISBN 978-1-259-82267-4

College of Engineering Textbook Policy – Students MUST acquire the required textbook that is listed on the course syllabus for this course. The textbook must be acquired by the 10th class day. Students are not allowed to share textbooks with students who are currently registered in the same class. Failure to acquire (or show proof of purchase) the required textbook by the 10th class day will result in the student being administratively dropped from the course. The University will assess financial obligations for the course to the student as with any other dropped class according to the fee schedule as well as your financial aid may be affected.

If you are not financially able to purchase a required textbook for an engineering course prior to the 10th class day, you may apply to the College of Engineering Textbook Fund for a textbook voucher. The voucher can only be used at the Campus Bookstore. This voucher is a loan and must be paid back to the College of Engineering prior to the start of pre-registration for the coming semester. If the loan is not repaid, a hold will be placed on your account. Additional information and application materials can be obtained from the Assistant Dean's Office (SR Collins Rm 349) and obtained online at the College of Engineering website under student resources.

Please refer to <http://www.pvamu.edu/pages/195.asp> for the Roy G. Perry College of Engineering Textbook Policy. You will find Textbook Policies and Procedures, Textbook Application and Textbook Evaluation Form.

Recommended Text(s):	Fundamentals of Engineering Thermodynamics, 7th edition M. J. Moran, H. N. Shapiro, D. D. Boettner and M.B. Bailey ISBN-10: 0470495901 ISBN-13: 978- 0470495902
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Access to Learning Resources:

PVAMU Library:
Phone: (936) 261-1500;
Web: <http://www.tamu.edu/pvamu/library/>

University Bookstore:
Phone: (936) 261-1990;
Web: <https://www.bkstr.com/Home/10001-10734-1?demoKey=d>

Student Learning Outcomes:

	Upon successful completion of this course, students will be able to:	Program Learning Outcome # Alignment	Core Curriculum Outcome Alignment
1	Apply theories of thermodynamics to practical engineering problems	Criterion 1	
2	Analyze first law of thermodynamics on control volumes	Criterion 1	
3	Analyze second law of thermodynamics on control volumes and engineering devices	Criterion 1	

How Mechanical Engineering Courses meet Department Objectives & ABET Criterion 1

Specific objectives of the Mechanical Engineering Program are to produce graduates who will:

1. Have the necessary knowledge and skills to enable them have successful careers in mechanical engineering and related fields;
2. Have leadership skills to advance their careers through increasing levels of responsibilities and leadership;
3. Have the necessary educational background to successfully pursue graduate or advanced professional degrees and continuing professional development, and
4. Actively participate in professional and community services.

Program Outcomes and Assessment:

Engineering Programs must demonstrate that their graduates have:

ABET Student Learning Outcome 1:

An ability to analyze and solve complex engineering problems.

Program Outcomes**Covered by Course**

Program Outcomes "1" as defined above

Program Outcomes**Measured by Course**

Program outcomes "1" as defined above

Data Used in Assessing Outcomes in Course

1. Homework
2. Quiz
3. Exam

Data Used to Show Student Proficiency in Outcomes

1. Samples of student work in a Binder
2. Excel Spreadsheet showing student performance and class average in outcomes
3. End of Semester Course Assessment report

Major Course Requirements

Method of Determining Final Course Grade

Course Grade Requirement	Value	Total
1) Homework	5%	5
2) Quizzes	30%	20
3) Exams (2)	60%	10
4) Attendance (1%), SOS submission (2%), TaskStream submission (2%)	5%	5
Total:	100%	100

* Class discussions will be provided to both motivate student for self-study and taking attendance. The discussions will be objectively evaluated to provide guidelines to students to modify their study approach and techniques.

Grading Criteria and Conversion:

A = 90 – 100

B = 80 – 89

C = 70 – 79

D = 60 – 69

F = 0 – 59

Note: The instructor reserves the right to alter it during the semester.

Detailed Description of Major Assignments:

Assignment Title or Grade Requirement	Description
Homework	Problem solving, summary writing, discussion forums
Quiz	Problem solving and/or conceptual questions
Exams	Problem solving and/or conceptual questions

Course Procedures or Additional Instructor Policies

Taskstream

Taskstream is a tool that Prairie View A&M University uses for assessment purposes. One of your assignments may be required to be submitted as an "artifact," an item of coursework that serves as evidence that course objectives are met. If applicable, more information will be provided during the semester, but for general information, you can visit Taskstream via the link in eCourses.

Course Goals or Overview The Goals of this course are to (1) introduce procedures and instrumentation for verifying theoretical predictions with experimental measurements in thermal science, (2) relate the differences between theoretical prediction and experimental measurements with underlying assumptions and the physical conditions of experiments and (3) introduce students to the analysis of experimental data and preparation of scientific reports.

Course Requirements & Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course. Requiring students to read ahead of time on the theory and method for analyzing the experiments to be performed

Laboratory Reports: Requiring students to write a detailed technical report following normal accepted standards to describe the method used to conduct the experiment, detailed analysis of the data, and interpretation of the results.

Design Project: Requiring the students to design an experimental system to measure a given phenomenon.

Class Attendance: Participation in class sessions, discussions and any given assignment is required.

Course Policy:

Academic Integrity

DO NOT COPY FROM PREVIOUS REPORTS

DO NOT COPY FROM ANYONE

PROTECT YOUR EES PROGRAM AND REPORT FROM BEING COPIED

Academic dishonesty of any sort (plagiarism, cheating, fabrication or facilitation) is prohibited under any circumstance. Any detected actions of dishonesty will cause the failure of the class directly.

Assignments & Due Dates

Homework and Lab reports will be submitted at the beginning of class on the due day. Late submission is not accepted with the following exceptions:

1. The submission is late due to circumstances beyond your control (i.e. illness with valid hospital records or doctor's note, weather, etc.), or
2. 50% penalty will be deducted from the assignment score if the assignment is submitted late but within 24 hours of the due time.

SOFT COPIES ARE TO BE SUBMITTED ON CANVAS BEFORE OR BY THE DUE DATE & TIME

Labs

No makeup labs will be given. You cannot submit a lab report if you did not participate in conducting the lab experiment. You will be expected to conduct the lab in the allotted time period on the lab day.

Projects

You need to submit all the projects with one hardcopy printed out on paper and one electronic copy. The final project may be a team project.

Attendance

Participating in class discussions and assignments is mandatory. Detailed instructions for each assignment or task will be provided on its description on Canvas. If you miss 3 or more than 3 assignments or tasks, you will receive an "F" automatically.

Examinations

No makeup labs will be given unless due to circumstances beyond your control (i.e. illness, weather, etc.). You will be expected to complete tests/exams in the allotted class time.

Thermodynamics 1
Fall 2021
Tentative Class Schedule

Semester Calendar	
Week	Description
Week One – 08/23: Topic Description	Chapters 1
Readings:	Chapter 1
Assignment (s):	Follow the course on Canvas
Week Two – 08/30: Topic Description	Chapter 2
Readings:	Chapter 2
Assignment (s):	Follow the course on Canvas
Week Three – 09/06: Topic Description	Chapters 2 & 3
Readings:	Chapter 2 & 3
Assignment (s):	Follow the course on Canvas
Week Four – 09/13: Topic Description	Chapter 3
Readings:	Chapter 3
Assignment (s):	Follow the course on Canvas
Week Five – 09/20: Topic Description	Chapter 3
Readings:	Chapter 3; Quiz 1 (CH 1,2)
Assignment (s):	Follow the course on Canvas
Week Six – 09/27: Topic Description	Chapter 4
Readings:	Chapter 4
Assignment (s):	Follow the course on Canvas
Week Seven 10/04: Topic Description	Chapter 4
Readings:	Chapter 4
Assignment (s):	Follow the course on Canvas
Week Eight 10/11: Topic Description	Chapter 5
Readings:	Chapter 5; Test 1 (CH 1,2,3,4)
Assignment (s):	Follow the course on Canvas
Week Nine – 10/18: Topic Description	Chapter 5
Readings:	Chapter 5
Assignment (s):	Follow the course on Canvas
Week Ten – 10/25: Topic Description	Chapter 5
Readings:	Chapter 5
Assignment (s):	Follow the course on Canvas
Week Eleven – 11/01: Topic Description	Chapter 6
Readings:	Chapter 6
Assignment (s):	Follow the course on Canvas
Week Twelve – 11/08: Topic Description	Chapter 6
Readings:	Chapter 6; Quiz 2 (CH 4,5,6)
Assignment (s):	Follow the course on Canvas

Week Thirteen – 11/15: Topic Description	Chapter 7
Readings:	Chapter 7
Assignment (s):	Follow the course on Canvas
Week Fourteen – 11/22: Topic Description	Chapter 7
Readings:	Chapter 7
Assignment (s):	Follow the course on Canvas
Week Fifteen – 11/29: Topic Description	Chapter 7
Readings:	Chapter 7
Assignment (s):	Follow the course on Canvas
Week Sixteen – 12/06: Topic Description	Final exam (All chapters)

Student Support and Success

John B. Coleman Library

The John B. Coleman Library's mission is to enhance the scholarly pursuit of knowledge, to foster intellectual curiosity, and to promote life-long learning and research through our innovative services, resources, and cultural programs, which support the Prairie View A&M University's global mission of teaching, service, and research. It maintains library collections and access both on campus, online, and through local agreements to further the educational goals of students and faculty. Website: <https://www.pvamu.edu/library/>; Phone: 936-261-1500

Academic Advising Services

Academic Advising Services offers students a variety of services that contributes to student success and leads towards graduation. We assist students with understanding university policies and procedures that affect academic progress. We support the early alert program to help students get connected to success early in the semester. We help refer students to the appropriate academic support services when they are unsure of the best resource for their needs. Faculty advisors support some students in their respective colleges. Your faculty advisor can be identified in PantherTracks. Advisors with Academic Advising Services are available to all students. We are located across campus. Find your advisor's location by academic major at www.pvamu.edu/advising. Phone: 936-261-5911

The University Tutoring Center

The University Tutoring Center (UTC) offers free tutoring and academic support to all registered PVAMU students. The mission of the UTC is to help provide a solid academic foundation that enables students to become confident, capable, independent learners. Competent and caring staff and peer tutors guide students in identifying, acquiring, and enhancing the knowledge, skills, and attitudes needed to reach their desired goals. Tutoring and academic support are offered face-to-face in the UTC, in virtual face-to-face sessions (<https://www.pvamu.edu/student-success/sass/university-tutoring-center/>), and through online sessions (<https://www.pvamu.edu/pvplace/>). Other support services available for students include Supplemental Instruction, Study Break, Academic Success Workshops, and Algebra Study Jam. Location: J. B. Coleman Library, Rm. 307; Phone: 936-261-1561; Email: pvtutoring@pvamu.edu; Website: <https://www.pvamu.edu/student-success/sass/university-tutoring-center/>

Writing Center

The Writing Center provides well-trained peer tutors to assist students with writing assignments at any stage of the writing process. Tutors help students with various writing tasks from understanding assignments, brainstorming, drafting, revising, editing, researching, and integrating sources. Students have free access to Grammarly online writing assistance. Grammarly is an automated proofreading and plagiarism detection tool. Students must register for Grammarly by using their student email address. In addition, students have access to face-to-face and virtual tutoring services either asynchronously via email or synchronously via Zoom. Location: J. B. Coleman Library, Rm. 209; Phone: 936-261-3724; Website: <https://www.pvamu.edu/student-success/writing-center/>; Grammarly Registration: <https://www.grammarly.com/enterprise/signup>

Academic Early Alert

Academic Early Alert is a proactive system of communication and collaboration between faculty, academic advisors, and PVAMU students that is designed to support student success by promptly identifying issues and allowing for intervention. Academic Early Alerts help students by providing a central location to schedule advising appointments, view advisor contact information, and request assistance. Students who recognize that they have a problem that is negatively affecting their academic performance or ability to continue school may self-refer an Academic Early Alert. To do so, students will log in to PV Place and click on Academic Early Alert on the left sidebar. Phone: 936-261-5902; Website: <https://www.pvamu.edu/student-success/early-alert/>

Student Counseling Services

The Student Counseling Services unit offers a range of services and programs to assist students in maximizing their potential for success: short-term individual, couples, and group counseling, as well as crisis intervention, outreach, consultation, and referral services. The staff is licensed by the State of Texas and assists students who are dealing with academic skills concerns, situational crises, adjustment problems, and emotional difficulties. Information shared with the staff is treated confidentially and in

accordance with Texas State Law. Location: Hobart Taylor, 2nd floor; Phone: 936-261-3564; Website: <https://www.pvamu.edu/healthservices/student-counseling-services/>

Office of Testing Services

Testing Services serves to create opportunities by offering a suite of exams that aid in the students' academic and professional success. Currently, we administer entrance (HESI A2), college readiness (TSI assessment), Prior Learning (CLEP, DSST), and proctored exams. Location: Wilhelmina Delco, 3rd Floor, Rm. 305; Phone: 936-261-3627; Email: aetesting@pvamu.edu; Website: www.pvamu.edu/testing

Office of Diagnostic Testing and Disability Services

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, contact the Office of Disability Services. As a federally-mandated educational support unit, the Office of Disability Services serves as the repository for confidential disability files for faculty, staff, and students. For persons with a disability, the Office develops individualized ADA letters of request for accommodations. Other services include learning style inventories, awareness workshops, accessibility pathways, webinars, computer laboratory with adapted hard and software, adapted furniture, proctoring non-standardized test administrations, ASL interpreters, ALDs, digital recorders, Livescribe, and a comprehensive referral network across campus and the broader community. Location: Hobart Taylor, Rm. 1D128; Phone: 936-261-3583; Website: <https://www.pvamu.edu/disabilityservices/>

Center for Instructional Innovation and Technology Services (CIITS)

Distance Learning, also referred to as Distance Education, is the employment of alternative instructional delivery methods to extend programs and services to persons unable to attend college in the traditional manner. The Center for Instructional Innovation and Technology Services (CIITS) supports student learning through online, hybrid, web-assist, and 2-way video course delivery. For more details and contact information, visit:

<https://www.pvamu.edu/dlearning/distance-learning-2-2/students-2/>; Phone: 936-261-3283

Veteran Affairs

Veterans Services works with student veterans, current military and military dependents to support their transition to the college environment and continued persistence to graduation. The Office coordinates and certifies benefits for both the G.I. Bill and the Texas Hazlewood Act. Location: Evans Hall, Rm. 102; Phone: 936-261-3563; Website: <https://www.pvamu.edu/sa/departments/veteranaffairs/>

Office for Student Engagement

The Office for Student Engagement delivers comprehensive programs and services designed to meet the co-curricular needs of students. The Office implements inclusive and accessible programs and services that enhance student development through exposure to and participation in diverse and relevant social, cultural, intellectual, recreational, community service, leadership development, and campus governance. Location: Memorial Student Center, Rm. 221; Phone: 936-261-1340; Website: <https://www.pvamu.edu/studentengagement/>

Career Services

Career Services supports students through professional development, career readiness, and placement and employment assistance. The Office provides one-on-one career coaching, interview preparation, resume and letter writing, and career exploration workshops and seminars. Services are provided for students at the Northwest Houston Center and College of Nursing in the Medical Center twice a month or on a requested basis. Distance Learning students are encouraged to visit the Career Services website for information regarding services provided. Location: Anderson Hall, 2nd floor; Phone: 936-261-3570; Website: <https://www.pvamu.edu/careerservices/>

University Rules and Procedures

Academic Misconduct

Academic dishonesty is defined as any form of cheating or dishonesty that has the effect or intent of interfering with any academic exercise or fair evaluation of a student's performance. The college faculty can provide additional information, particularly related to a specific course, laboratory, or assignment.

You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with the *University Administrative Guidelines on Academic Integrity*, which can be found on the [Academic Integrity webpage](#). Students who engage in academic misconduct are subject to university disciplinary procedures. As listed in the *University Administrative Guidelines on Academic Integrity*, the University Online Catalog, and the Student Code of Conduct, the following are examples of prohibited conduct. This list is not designed to be all-inclusive or exhaustive. In addition to academic sanctions, any student found to have committed academic misconduct that is also a violation of criminal law may also be subject to disciplinary review and action by the Office of Student Conduct (as outlined in the Student Code of Conduct).

Forms of Academic Dishonesty:

1. Cheating: Deception in which a student misrepresents that he/she has mastered information on an academic exercise that he/she has not learned, giving or receiving aid unauthorized by the instructor on assignments or examinations. Examples: unauthorized use of notes for a test; using a "cheat sheet" on a quiz or exam; any alteration made on a graded test or exam which is then resubmitted to the teacher;
2. Plagiarism: Careless or deliberate use of the work or the ideas of another; representation of another's work, words, ideas, or data as your own without permission or appropriate acknowledgment. Examples: copying another's paper or answers, failure to identify information or essays from the internet and submitting or representing it as your own; submitting an assignment which has been partially or wholly done by another and claiming it as yours; not properly acknowledging a source which has been summarized or paraphrased in your work; failure to acknowledge the use of another's words with quotation marks;
3. Collusion: When more than one student or person contributes to a piece of work that is submitted as the work of an individual;
4. Conspiracy: Agreeing with one or more persons to commit an act of academic/scholastic dishonesty; and
5. Multiple Submission: Submission of work from one course to satisfy a requirement in another course without explicit permission. Example: using a paper prepared and graded for credit in one course to fulfill a requirement and receive credit in a different course.

Nonacademic Misconduct

The university respects the rights of instructors to teach and students to learn. Maintenance of these rights requires campus conditions that do not impede their exercise. Campus behavior that interferes with either (1) the instructor's ability to conduct the class, (2) the inability of other students to profit from the instructional program, or (3) campus behavior that interferes with the rights of others will not be tolerated. An individual engaging in such disruptive behavior may be subject to disciplinary action. The Office of Student Conduct will adjudicate such incidents under nonacademic procedures.

Sexual Misconduct

Sexual harassment of students and employees at Prairie View A&M University is unacceptable and will not be tolerated. Any member of the university community violating the university's sexual harassment policy will be subject to disciplinary action. In accordance with the Texas A&M University System guidelines, your instructor is obligated to report to the Office of Title IX Compliance (titleixteam@pvamu.edu) any instance of sexual misconduct involving a student, which includes sexual assault, stalking, dating violence, domestic violence, and sexual harassment, about which the instructor becomes aware during this course through writing, discussion, or personal disclosure. The faculty and staff of PVAMU actively strive to provide a learning, working, and living environment that promotes respect that is free from sexual misconduct, discrimination, and all forms of violence. If students, faculty,

or staff would like assistance or have questions, they may contact the Title IX Coordinator at 936-261-2144 or titleixteam@pvamu.edu. More information can be found at www.pvamu.edu/titleix, including confidential resources available on campus.

Pregnancy, Pregnancy-related, and Parenting Accommodations

Title IX of the Education Amendments of 1972 prohibits sex discrimination, which includes discrimination based on pregnancy, marital status, or parental status. Students seeking accommodations related to pregnancy, pregnancy-related conditions, or parenting (reasonably immediate postpartum period) are encouraged to contact Student Disability Services or the Dean of Students' Office for additional information and to request accommodations.

Non-Discrimination Statement

Prairie View A&M University does not discriminate on the basis of race, color, sex, religion, national origin, age, disability, genetic information, veteran status, sexual orientation, or gender identity in its programs and activities. The University is committed to supporting students and complying with The Texas A&M University System non-discrimination policy. It seeks to establish an environment that is free of bias, discrimination, and harassment. If you experience an incident of discrimination or harassment, we encourage you to report it. If you would like to speak with someone who may be able to afford you privacy or confidentiality, there are individuals who can meet with you. The Director of Equal Opportunity & Diversity has been designated to handle inquiries regarding the non-discrimination policies and can be reached at Harrington Science Building, Suite 109 or by phone at 936-261-1744 or 1792.

Class Attendance Policy (See the University Online Catalog for Full Attendance Policy)

Prairie View A&M University requires regular class attendance. Attending all classes supports the full academic development of each learner, whether classes are taught with the instructor physically present or via distance learning technologies such as interactive video and/or the internet. Excessive absenteeism, whether excused or unexcused, may result in a student's course grade being reduced or in the assignment of a grade of "F." Absences are accumulated beginning with the first day of class during regular semesters and summer terms. Each faculty member will include the University's attendance policy in each course syllabus.

Student Academic Appeals Process

Authority and responsibility for assigning grades to students rest with the faculty. However, in those instances where students believe that miscommunication, errors, or unfairness of any kind may have adversely affected the instructor's assessment of their academic performance, the student has a right to appeal by the procedure listed in the University Online Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

Technical Considerations

Minimum Recommended Hardware and Software:

- Intel PC or Laptop with Windows 10 or later version; Mac with OS High Sierra*
- Smartphone or iPad/Tablet with Wi-Fi*
- High-speed Internet access
- 8 GB Memory
- Hard drive with 320 GB storage space
- 15" monitor, 800x600, color or 16 bit
- Sound card w/speakers
- Microphone and recording software
- Keyboard & mouse
- Most current version of Google Chrome, Safari, or Firefox

Note: Be sure to enable Java & pop-ups in the Web browser preferences

* Smartphones, Google Chrome books, and Android tablets may not be supported. iPads are the only tablets supported.

Participants should have a basic proficiency of the following computer skills:

- Sending and receiving email
- A working knowledge of the Internet
- Microsoft Word (or a program convertible to Word)
- Acrobat PDF Reader
- Windows or Mac OS
- Video conferencing software

Netiquette (online etiquette)

Students are expected to participate in all discussions and virtual classroom chats as directed. Students are to be respectful and courteous to others on discussion boards. Foul or abusive language will not be tolerated. Do not use ALL CAPS for communicating to others AS IT CAN BE INTERPRETED AS YELLING. Avoid slang terms such as "wassup?" and texting abbreviations such as "u" instead of "you." Limit and possibly avoid the use of emoticons. Be cautious when using humor or sarcasm as tone is sometimes lost in an email or discussion post, and the message might be taken seriously or sound offensive.

Video Conferencing Etiquette

When using Zoom, WebEx, or other video conferencing tools, confirm the visible area is tidy, clear of background clutter, inappropriate or offensive posters, and other distractions. Ensure you dress appropriately and avoid using high traffic or noisy areas. Stay muted when you are not speaking and avoid eating/drinking during the session. Before the class session begins, test audio, video, and lighting to alleviate technology issues.

Technical Support

Students should go to <https://mypassword.pvamu.edu/> if they have password issues. The page will provide instructions for resetting passwords and contact information if login issues persist. For other technical questions regarding eCourses, call the Center for Instructional Innovation and Technology Services at 936-261-3283 or email ciits@pvamu.edu.

Communication Expectations and Standards

Emails or discussion postings will receive a response from the instructor, usually in less than 48 hours. Urgent emails should be marked as such. Check regularly for responses.

Discussion Requirement

Online courses often require minimal to no face-to-face meetings. However, conversations about the readings, lectures, materials, and other aspects of the course can occur in a seminar fashion. The use of the discussion board will accomplish this. The instructor will determine the exact use of discussion boards.

It is strongly suggested that students type their discussion postings in a word processing application such as Word and save it to their PC or a removable drive before posting to the discussion board. This is important for two reasons: 1) If for some reason your discussion responses are lost in your online course, you will have another copy; 2) Grammatical errors can be greatly minimized by the use of the spell-and-grammar check functions in word processing applications. Once the post(s) have been typed and corrected in the word processing application, copy and paste to the discussion board.

COVID-19 Campus Safety Measures

To promote public safety and protect students, faculty, and staff during the coronavirus pandemic, PVAMU has adopted policies and practices to limit virus transmission.

- **Self-monitoring** - Students should follow CDC recommendations for self-monitoring. Students who have a fever or exhibit symptoms of COVID-19 should participate in class remotely and should not participate in face-to-face instruction.

- **Face Coverings** - Face coverings (cloth face covering, surgical mask, etc.) are recommended in classrooms, teaching laboratories, common spaces such as lobbies and hallways, public study spaces, libraries, academic resource, and support offices, and outdoor spaces where 6 feet of physical distancing is challenging to maintain reliably.
- **Physical Distancing** - Physical distancing should be maintained between students, instructors, and others in course and course-related activities where possible.
- **Personal Illness and Quarantine** - Students required to quarantine are to participate in courses and course-related activities remotely and must not attend face-to-face course activities. Students should notify their instructors of the quarantine requirement. Students under quarantine are expected to participate in courses and complete graded work unless they have symptoms that are too severe to participate in course activities. Students experiencing personal injury or illness that is too severe for the student to attend class qualify for an excused absence. To receive an excused absence, students must provide appropriate documentation to the Office for Student Conduct, studentconduct@pvamu.edu.

End of Semester Course Assessment Report

This summary contains the following Information

1. Performance Statistics

- Total number of students in class
- The class average performance (stated as %) in each course outcome assessed in this class and the two previous times course was assessed.
- The acceptable class average for the class in each outcome area as set by your Department.
- Percentage of students who scored below the expected average in each outcome.

2. Implementation Summary

- Brief summary of plans implemented during the semester based on last assessment report

3. Perceived Problems

- Instructor's critical evaluation of perceived problems that affected students' performance. Realistic problems should be identified throughout the semester and summarized in this section of the report.

4. New Plans for Addressing Problems

- Instructor's plans for addressing the perceived problems the next time the class is taught.

5. Overall Trend over last three assessment periods

- Instructors summary of overall performance trend for each outcome measured over the last three periods.

5. Were Expectations Met?

- Answer **YES** if the class average was above the expected average and the stated percentage of students scored at or above the expected average, else answer NO.

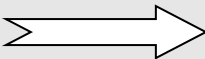
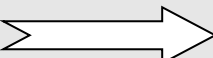
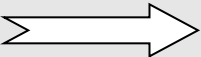
END OF SEMESTER COURSE OUTCOME ASSESSMENT REPORT

MCEG 2301 THERMODYNAMICS 1, P03

Fall 2021 SEMESTER

Report Prepared by: Dr. Shahin Shafiee

Report Date: December 17, 2021

Semester	Analysis Type	Number of Students	Outcome 8 Identify & Formulate EP (i-vi) based on E, S, M (Outcome 1.1), Solve EP (i-vi) based on E, S, M (Outcome 1.2)			
			Expected Class Average/	Expected Percent of students at or above average	Class Average	% Students meeting Expected Average
Fall 2021		22	70	70	49	54
Fall 2019		22	70	70	59.7	63.6
Spring 2019	Direct	27	70	70	66	37
Fall 2018	Direct	36	70	70	74	58
Implementation Summary	Items implemented from previous report or after meeting previous instructor		- Detailed Class notes were prepared from the Text book and made available to students - Review sheets for differential and integral calculus were handed out. - Different problems with various levels of difficulty practiced with students in class.			
Perceived Problems			Students were kept informed of their standing after each quiz and test. The major problems were: - Transition to post-pandemic conditions and from online to face-to-face mode of delivery for classes imposed students to significant difficulties. - Quality of students learning for pre-requisites of the current course was very low - Students are not good in simple algebra and calculus needed for Thermodynamics 1. - Lack of desire to study to improve even when counseled to do so repeatedly.			
Recommendations for Addressing Problems			The following is recommended for implementation: - Department should have a pool of questions in algebra and calculus (basic Mathematics for Thermodynamics) to be admitted in the beginning of the semester and students who do not pass be required to take a required remedial Basic Mathematics course/Tutorial and be requested to retake the Basic Mathematics for Thermodynamics 1 exam and pass before mid-term or be asked to drop the course. - Students need to be motivated to study - College/Department should set admission requirements at a level to allow quality students into the College of Engineering/ME department because a large percentage of the students do not have the necessary background and motivation to succeed in engineering.			
Were Expectations Met?			NO			

**Grade Sheet Showing
Student and Class Performance in Outcomes
The computed semester average in each outcome
as stated in the Assessment report are
highlighted in boldface**

Grade Sheet Showing Student and Class Performance in Course Outcomes
MCEG 2301 Thermodynamics 1, Section P03, Fall 2021 Semester

Outcome 8 - SACS					
Assignment		Quiz 2	Final Exam	Total	%
Max Points		100	100	200	100
1	Brigham, Isaac	55	77	132	66
2	Coyote, Luis	40	70	110	55
3	Eldridge, Jordan	30	90	120	60
4	Freeman, Seth	20	70	90	45
5	Hall, Zhaniriua	30	16	46	23
6	Holliday, Gregory	60	16	76	38
7	Leroy, Denia	15	70	85	42.5
8	Mendoza, Abel	80	65	145	72.5
9	Musgrove, Jariana	15	60	75	37.5
10	Perry, O'neal	40	60	100	50
11	Reynolds, Allyssa	40	67	107	53.5
12	Saldivar, Jose	40	95	135	67.5
13	Walters, Kameron	40	20	60	30
Average		38.8	59.7	98.5	49.3
Total No. of students		13			
No. of students above average		7			
% of students above average		54			