



## Master Course Syllabus

For additional course information, including prerequisites, corequisites, and course fees, please refer to the Catalog: <https://catalog.uvu.edu/>

---

**Semester:** Spring

**Course Prefix:** DMT

**Course Title:** Chassis Theory

**Year:** 2025

**Course and Section #:** 2410-001

**Credits:** 4

---

### ***Course Description***

Provides theory on maintenance and repair of heavy-duty chassis systems. Covers air brake systems, ABS systems, suspension systems, steering geometry, front end and tandem alignment, and frame maintenance. Emphasizes Department of Transportation highway safety requirements, and preventative maintenance.

---

### ***Course Attributes***

This course has the following attributes:

- General Education Requirements
- Global/Intercultural Graduation Requirements
- Writing Enriched Graduation Requirements
- Discipline Core Requirements in Program
- Elective Core Requirements in Program
- Open Elective

Other: *Click here to enter text.*

---

### ***Instructor Information***

**Instructor Name:** Dean Bohl

---

### ***Student Learning Outcomes***

1. To familiarize the student with the identification, theoretical operation, maintenance, failure analysis & testing of heavy-duty truck chassis related components, systems as described in the course description.
- 

### ***Course Materials and Texts***

A laptop or tablet that is PC based.

**Textbook** (Hard copy or Electronic Copy of "Heavy Duty Truck Systems 7<sup>th</sup> Edition" by Sean Bennett – Cengage Learning Inc. ISBN 978-1-337-78710-9

---

### ***Course Requirements***

**Course Assignments, Assessments, and Grading Policy**

This class is a presentation and discussion setting; however, I may use any form of object or media as necessary to supplement a current topic or demonstrate a point. Anyone may be called on to give his or her input into the discussion at any time. If you feel uncomfortable asking questions in class, you are highly encouraged to see me after class send your question directly to me electronically. If you choose electronically, I will answer it openly in class the following day without disclosing who asked it.

The UVU academic standards department recommends **at least two hours of self-study** for each college credit hour taken. This theory class is a 4-credit class. This means that depending upon your individual academic ability; **you should allow yourself at least 8 hours per week outside of class** for study, homework, and web based assignments. It is possible that you may need more time than this.

**Attendance & Testing:** Attendance counts for 5% of your theory grade and is graded based upon the attendance chart in section 10. **You must be present to take a pop quiz. No make-up quizzes are given. NO EXCEPTIONS!** Quizzes come from topics recently discussed during lecture or chapter questions.

**Homework** is assigned online through CANVAS. **Chapter questions are due on paper and collected the day they are due at the beginning of class.** If you cannot deliver your homework in person on the due date, you may send it to me electronically **BEFORE CLASS.** Web based training must be completed by the assigned date due. **Any assignment turned in or competed after the assigned due date is considered late.** I only accept homework **1 day late for HALF CREDIT. On the second day, I don't want it.** FYI, the majority of students who do poorly or fail this class do so because they miss class, do not turn assignments on time, or do not read the chapter to complete the assigned questions.

**Tests** are given in class and are not timed. I will notify you well in advance of the test date and you must be present on the assigned day to take it. Exceptions for tests may be arranged **in advance** for special circumstances. **If you simply choose to blow it off without advance notice, it cannot be made up** and you will take a zero. To be successful in this class, you need to have good test scores. This means you need to make it a priority to complete your assignments by yourself and study the assigned material. All Any tests administered by Canvas will be timed.

## 2. Grading Scale for Attendance

0 Days = 100%	6 Days = 50%
1 Day = 95%	7 Days = 40%
2 Days = 90%	8 Days = 30%
3 Days = 80%	9 Days = 20%
4 Days = 70%	10 Days = 0%
5 Days = 60%	

**Overall Grading scale:** Attendance = 5%, Homework = 25%, Quizzes = 15%, Written Tests = 35%, Online Training Courses = 20%

100 - 94 = A	80 - 83 = B-	69 - 67 = D+
90 - 93 = A-	77 - 79 = C+	64 - 66 = D

87 - 89 = B+	74 - 76 = C	60 - 63 = D-
84 - 86 = B	70 - 73 = C-	Below 60 is failing

### Keys to Success:

1. Attend class every day and be on time.
2. Turn in your assignments **on time**.
3. **Do not miss any quizzes or tests.**
4. Ask questions for clarification, preferably in class while a topic is being covered.
5. Study your reading assignments **BEFORE** class.
6. Be prepared for **pop quizzes** at any time.
7. Find a study partner and quiz each other daily about lecture or textbook topics.
8. **Do your own work.** Do not cheat yourself by cheating from others.
9. Don't sleep in class.

### Required or Recommended Reading Assignments

All reading assignments are listed under the homework section.

### General Description of the Subject Matter of Each Lecture or Discussion

<b>Week 1</b>	Wheels, Tires & Hub Designs
<b>Week 2</b>	Foundation Brakes
<b>Week 3</b>	Foundation Brakes Continued
<b>Week 4</b>	Air Systems
<b>Week 5</b>	Air Systems continued & ABS Systems
<b>Week 6</b>	Steering Components & Front-End Alignment
<b>Week 7</b>	Suspension Systems

### *Required Course Syllabus Statements*

#### Generative AI

The use of generative AI tools (e.g. ChatGPT, Google Gemini, etc.) is permitted in this course for the following activities:

- Finding information on your topic;
- Solving troubleshooting problems
- Checking grammar and style.

#### Using Remote Testing Software

This course does not use remote testing software.

This course uses remote testing software. Remote test-takers may choose their remote testing locations. Please note, however, that the testing software used for this may conduct a brief scan of remote test-takers' immediate surroundings, may require use of a webcam while taking an exam, may require the microphone be on while taking an exam, or may require other practices to confirm academic honesty. Test-takers therefore shall have no expectation of privacy in their test-taking location during, or immediately preceding, remote testing. If a student strongly objects to using test-taking software, the

student should contact the instructor at the beginning of the semester to determine whether alternative testing arrangements are feasible. Alternatives are not guaranteed.

---

## ***Required University Syllabus Statements***

### **Accommodations/Students with Disabilities**

Students needing accommodations due to a permanent or temporary disability, pregnancy or pregnancy-related conditions may contact UVU [Accessibility Services](#) at [accessibilityservices@uvu.edu](mailto:accessibilityservices@uvu.edu) or 801-863-8747.

Accessibility Services is located on the Orem Campus in BA 110.

Deaf/Hard of Hearing students requesting ASL interpreters or transcribers can contact Accessibility Services to set up accommodations. Deaf/Hard of Hearing services can be contacted at [DHHservices@uvu.edu](mailto:DHHservices@uvu.edu)

DHH is located on the Orem Campus in BA 112.

---

### **Academic Integrity**

At Utah Valley University, faculty and students operate in an atmosphere of mutual trust. Maintaining an atmosphere of academic integrity allows for free exchange of ideas and enables all members of the community to achieve their highest potential. Our goal is to foster an intellectual atmosphere that produces scholars of integrity and imaginative thought. In all academic work, the ideas and contributions of others must be appropriately acknowledged and UVU students are expected to produce their own original academic work.

Faculty and students share the responsibility of ensuring the honesty and fairness of the intellectual environment at UVU. Students have a responsibility to promote academic integrity at the university by not participating in or facilitating others' participation in any act of academic dishonesty. As members of the academic community, students must become familiar with their [rights and responsibilities](#). In each course, they are responsible for knowing the requirements and restrictions regarding research and writing, assessments, collaborative work, the use of study aids, the appropriateness of assistance, and other issues. Likewise, instructors are responsible to clearly state expectations and model best practices.

Further information on what constitutes academic dishonesty is detailed in [UVU Policy 541: Student Code of Conduct](#).

---

### **Equity and Title IX**

Utah Valley University does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age (40 and over), disability, veteran status, pregnancy, childbirth, or pregnancy-related conditions, citizenship, genetic information, or other basis protected by applicable law, including Title IX and 34 C.F.R. Part 106, in employment, treatment, admission, access to educational programs and activities, or other University benefits or services. Inquiries about nondiscrimination at UVU may be directed to the U.S. Department of Education's Office for Civil Rights or UVU's Title IX Coordinator at 801-863-7999 – [TitleIX@uvu.edu](mailto:TitleIX@uvu.edu) – 800 W University Pkwy, Orem, 84058, Suite BA 203.

---

### **Religious Accommodation**

UVU values and acknowledges the array of worldviews, faiths, and religions represented in our student body, and as such provides supportive accommodations for students. Religious belief or conscience broadly includes religious, non-religious, theistic, or non-theistic moral or ethical beliefs as well as participation in religious holidays, observances, or activities. Accommodations may include scheduling or due-date modifications or make-up assignments for missed class work.

To seek a religious accommodation, a student must provide written notice to the instructor and the Director of Accessibility Services at [accessibilityservices@uvu.edu](mailto:accessibilityservices@uvu.edu). If the accommodation relates to a scheduling conflict, the notice should include the date, time, and brief description of the difficulty posed by the conflict. Such requests should be made as soon as the student is aware of the prospective scheduling conflict.

While religious expression is welcome throughout campus, UVU also has a [specially dedicated space](#) for meditation, prayer, reflection, or other forms of religious expression.