

**ERP 4220 Introduction to Enterprise Decision Dashboard Prototyping
Course Syllabus – Spring 2025**

Department of Business & Information Technology Mission

Capitalizing on the strong technological emphasis of Missouri S&T, the Department of Business and Information Technology prepares individuals for careers in modern business organizations. The Department emphasizes management through technology, with a particular focus on information systems and their application in a fast-changing, global, and competitive environment, to serve the economic interests of industry and the evolving needs of society.

INSTRUCTOR AND COURSE INFORMATION

Instructor: Bih-Ru Lea, Ph.D.	Class Hours: 4:00-6:30 p.m., Monday
Office: Fulton 102A	Classroom: Fulton 107A
Phone: 573-341-6436	Office Hours:
E-Mail: leabi@mst.edu	11:30 am – 1 pm M & Tu
Course Credit: 3 semester hours of credit	and by appointment
Prerequisite: IST 1750	Class Web: http://canvas.mst.edu

COURSE CATALOG DESCRIPTION:

Study design and implementation principles for enterprise decision dashboards utilizing data warehouses and databases to support visual analytics. SAP HANA Studio, Lumira Designer (Eclipse IDE), SAP Analytics Cloud, SAS Viya, or similar tools are used for practical assignments.

COURSE OBJECTIVES

Strategic Enterprise Management involves analyzing how effectively a company is attaining its strategic objectives as well as developing effective decision support and reporting systems. The main objectives of this course are to stimulate the student’s problem-solving abilities and critical thinking skills and to improve the student’s communication skills. As a result of taking this course, students are expected to be able to demonstrate:

Course Objectives	Program Learning Objectives					
	Communication Skills	Critical Thinking	Information Technology	Teamwork & Leadership	Global & Multicultural Issues	Integrate Business Areas
• an understanding of competitive strategies from leveraging the information technology			X		X	X
• an understanding of roles, applications, and impact of decision dashboards on enterprise mobile strategies and Big Data Analytics	X	X	X			X
• an understanding of principles of Visual Design and Design Thinking in dashboard design and implementation	X	X	X			X
• an understanding and be able to communicate fundamental concepts of business analytics, data visualization, decision dashboards, and data warehouse	X	X	X			X
• abilities to design and implement an effective analytical dashboard to support decision-making in both on-premises and enterprise cloud environments		X	X	X		X

TEXTBOOK(S) AND MATERIALS FOR COURSE

- Information Dashboard Design: Displaying Data for At-A-Glance Monitoring (ISBN-10: 1938377001, ISBN-13: 978-1938377006), 2nd ed., by Stephen Few, Analytics Press; 2013
- ERP 4220 6220 Course Packs ((ISBN: 2810000304934), University of Missouri Publishing (<https://www.thesandtstore.com/>))

The course pack has approved to be a part of the S&T AutoAccess program designed to reduce the cost of course materials for students. The lowest cost content has been sourced. If you choose to opt out of the content, please do so by the Bookstore deadline to receive a refund. You will be sent an AutoAccess Welcome Email that will provide charge amounts, the opt-out process and any additional information needed for your AutoAccess course(s) when the semester starts.

Your AutoAccess course may have a Print Upgrade available as an additional purchase. This is a low-cost version of the printed text made available by the publisher at a reduced cost. It is the publisher's requirement that in order to purchase the additional print, you must opt in for the AutoAccess digital required material. If you have questions please contact the university bookstore at call 573-341-4705, email autoaccess@mst.edu or visit <https://www.thesandtstore.com/autoaccess>.

GRADING POLICIES AND PROCEDURES:

Midterm Exam (Concepts & Computer Operations)	120 pts	Labs, in-class exercises, and quizzes	650 pts
Final Exam (Concepts & Computer Operations)	120 pts	Team Chapter Presentation	50 pts
		Implementation Case Presentation	60 pts

Grading Scale:

A: \geq 895 pts B: 795 – 894 pts C: 695 – 794 pts D: 595 – 694 pts F: < 594 pts

General Grading Policies:

1. **ALL ASSIGNMENTS AND TESTS ARE INDIVIDUAL WORKS UNLESS OTHERWISE SPECIFIED.**
2. Please make every effort to make it to class on time. It is disruptive to the class to have members arriving late.
3. The instructor will assign NO incompletes in lieu of a regular grade.

Assignments:

1. Assignments must be submitted by the specified due date. A late submission will incur a **15% grade penalty** for **each 24-hour period** it is overdue, starting immediately after the deadline. Submissions more than five days late (including weekends) will not be accepted. Exceptions may be granted for legitimate reasons if the student notifies the instructor at least **two days prior** to the due date.
2. If you are unable to attend a class, you need to **submit your assignment file(s) via the Canvas submission link by the due date**

Exams and Quizzes

1. The course has two exams: a midterm exam and a final exam. **All exam materials may become the property of the instructor after completion.**
2. Each test includes a concept test and a computer operation. The concept test is close book and close notes in class test. The computer operation is typically given as a take home exam.
3. It is possible to have announced and pop quizzes throughout the semester. The student will be given the date of announced quizzes one week in advance.
4. Exam and quiz dates are outlined in the class schedule. Failure to complete a test or quiz by the due date will result in a grade of zero. If you anticipate missing a test or scheduled quiz due to a legitimate reason

(e.g., scheduled surgery, official university business, or a job interview), you must contact the instructor before the test or quiz. Make-up tests may be granted only with valid justification and proper documentation (e.g., a doctor's note for surgery or illness). The make-up test will be comprehensive, covering material from the entire course.

5. All in-class quizzes and exams are closed books and closed notes unless otherwise specified.

Implementation Case Presentation:

Each student will present a decision dashboard implementation case using works developed and completed throughout the semester. The requirements, and grading forms are provided in the course pack.

Class Attendance and Participation:

1. Attendance is required. You are also responsible for finding out what was covered in class and what announcements were made as well as obtaining handouts.
2. Overall, student participation and discussion are essential to ensure that the course topics are understood and are relevant to actual business situations encountered in the workplace. As such, attendance and participation are essential factors in the learning process and a tool for assessing student learning. Therefore, you are required and expected to attend all classes.
3. Each 10% of **unexcused absences will result in the loss of a letter grade**. For example, if your grade is a B and you have missed 10% of classes without legitimate excuses, you will end up with a C.
4. The instructor reserves the right to **drop a student** if a student has **missed more than 20% of class time**.

Discussion Board Participation

To help students better understand course materials, to develop debugging skills, and to learn from each other, the instructor has enabled a discussion board in Canvas. **All technical support for Labs and projects will be provided through the class Discussion Board**. Technical ERP software-related questions will **NOT** be answered through e-mail by the instructor or graduate assistant.

1. If you do not understand a concept or encounter a problem/error that you do not know how to resolve yourself, you will need to post your questions on the discussion board. You are also expected to answer questions asked by your peers. Occasionally, the instructor will also post questions and answers.
2. Before posting a question on the Discussion Board, it is the student's responsibility to check and ensure no same question has been posted before.
3. By the end of the semester, every student is expected to have asked and answered 10-15 questions. These discussions will **earn you up to 20 extra credit points (or 2%) toward the course grade**. Straightforward questions (for example – how do I get to this transaction, where can I find this button, etc) will not count. Do not post questions just in the case of posting. The discussion board participation extra credits are awarded based on the analysis of the following content categories during the semester:

Categories	Percentage
Instructor posted topics/survey/poll participated/voted	30%
Original posts, reply posts, and follow-up posts	45%
Endorsement from the instructor and peers	10%
Posts viewed	15%
Total	100%

Student Honor Code and Academic Integrity

- **The instructor does not tolerate academic dishonesty of any type.** You don't get a second chance. You don't get to redo work or be forgiven for academic misconduct. You will be assigned a 0 for any assessment where you perform academic misconduct and the instructor is **required to report the incident to the Department and the University for disciplinary actions** which may include dismissal from the University. You may seek and give assistance on an assignment or project. You may not copy or plagiarize someone else's assignments, including assignments from previous semesters. You may not copy work from anyone else. You may not give someone else your answers. You may not submit someone else's work as your own. This **includes work done by an AI**. You may not do someone else's work for them. If you are caught receiving or giving an answer, this is considered academic dishonesty under university rules. Helping means helping someone figure out the solution themselves. It does not mean giving them the answers. If you don't know or don't want to spend the effort to actually teach someone else how to do something, don't help them. You will get in trouble. **Please note that there are elements designed into this course to cause your cheating to be revealed** (adopted from Dr. Cecil Chua's policies).
- **The use of AI to generate the final assignment submission is not permitted.** You may use these tools as a starting point to create outlines, find ideas to build upon, etc. Violations of this policy will be considered as an academic dishonesty and result in a grade of 0% for the assignment.



No use of GAI is acceptable for use on any graded class activity.
Use of GAI may result in a zero for the assignment.

- All students are expected to follow the Honor Code (<https://stuco.mst.edu/documents/honor-code/>)
- Student Academic Regulations (<https://registrar.mst.edu/academicregs/conductofstudents/>) describes the student standard of conduct relative to the University of Missouri System's Collected Rules and Regulations section 200.010, and offers descriptions of academic dishonesty including cheating, plagiarism, sabotage, and **unauthorized use of artificially generated content**, any of which will be reported to the Dean of Students.
- Page 30 of the Student Academic Regulations handbook describes the student standard of conduct relative to the University of Missouri System's Collected Rules and Regulations section 200.010, and offers descriptions of academic dishonesty including cheating, plagiarism, and sabotage (<http://registrar.mst.edu/academicregs/index.html>), **all of which will be reported to the Vice Provost for Academic Support.**
- Additional guidance including the University's Academic Dishonesty Procedures is available at <http://academic-support.mst.edu>.
- Other resources for students regarding academic integrity can be found online (<https://undergrad.mst.edu/academicintegrity/studentresources-ai/>)

KEY DATES <https://registrar.mst.edu/calendars>

- The last day to add this course is Monday, February 3
- The last day to withdraw from this course without a "WD" showing on the transcript is Monday, March 3
- The last day for dropping this course is Friday, April 18

ERP 4220 Required Reading List (in Course Pack)

- Reading 1 (**R1**): Ch. 4 Descriptive Analytics II: Business Intelligence and Data Warehousing (pp. 185-248), in *business Intelligence, Analytics, Data Science, and AI*, 5/E, by Ramesh Sharda, Dursun Delen, Efraim Turban (ISBN-10: 0138043302, ISBN-13: 9780138043308), 2024
- Reading 2 (**R2**): Ch. 18 Dimensional Modeling Process and Tasks, in *The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling* (pp. 429-441), 3rd Edition, by Ralph Kimball; Margy Ross; ISBN-10 1-118-53080-2, ISBN-13 9781118530801, John Wiley & Sons.
- Reading 3 (**R3**): Ch. 17 Kimball DW/BI Lifecycle Overview, in *The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling* (pp. 403-426), 3rd Edition, by Ralph Kimball; Margy Ross; ISBN-10 1-118-53080-2, ISBN-13 9781118530801, John Wiley & Sons.
- Reading 4 (**R4**): Ch. 3 Data Warehouse Design Example 1: Ch. 3 Retail Sales, in *The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling* (pp. 69-109), 3rd Edition, by Ralph Kimball; Margy Ross; ISBN-10 1-118-53080-2, ISBN-13 9781118530801, John Wiley & Sons
- Reading 5 (**R5**) Ch. 6 Data Warehouse Design Example 2: Ch. 6 Order Management, in *The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling* (pp. 167-198), 3rd Edition, by Ralph Kimball; Margy Ross; ISBN-10 1-118-53080-2, ISBN-13 9781118530801, John Wiley & Sons
- Reading 6 (**R6**): Ch. 5 Data Mining Process, Methods, and Algorithms, in *Analytics, Data Science, & Artificial Intelligence: Systems for Decision Support* (pp. 193-250), 11th Ed., by Ramesh Sharda, Dursun Delen, Efraim Turban, ISBN-13: 978-0135192016 978-0135192016, 2020, Pearson Publishing.
- Reading 7 (**R7**): Ch. 1 Introduction to Anonymizing Health Data, in *Anonymizing Health Data* (pp. 1-19), 1st Edition, ISBN-13: 9781449363079, by Khaled El Emam; Luk Arbuckle, O'Reilly Media
- Reading 8 (**R8**): Ch. 13 De-Identification and Data Quality: A Clinical Data Warehouse (pp. 185-194), in *Anonymizing Health Data*, 1st Edition

ERP 4220 Tentative Course Schedule

TXT: Textbook

CP: Course Pack **Reading #:** Chapter Reading provided in the Course Pack

	Week	Topics	Textbook	Course Pack
Data Visualization (Descriptive Analytics)	Week 1 1/20	1. Purchase the textbook and course pack		
		2. Review Class Syllabus (Canvas → Syllabus)		
		3. Complete course Preparation Tasks & Technology Requirement Set Up		567 - 583
		4. Complete Pre-Class Survey (Canvas → Assignments)		
		5. Ch. 1 & Ch. 2 Discussion Question (in Canvas Discussion Board)		
	2 1/27	Introduction to ERP 4220 and Course Overview		9 - 26
		The Art and Influence of Data Visualization		27 - 42
		Ch. 1. Clarifying the Vision	Ch. 1	43 - 57
		Ch. 2 Common Dashboard Design Mistakes	Ch. 2	58 - 71
		<i>Hands-on activity:</i> SAS Viya: Visual Analytics and Dashboard/Report Creation		584-613
		Assignment: Lab 1 Visualization and Dashboard Design using SAS Viya: Visual Analytics		595 - 617
	3 2/3	Ch. 3 Assessing what's needed?	Ch. 3	72 - 75
		Ch. 4. Fundamental Considerations	Ch. 4	76 - 78
		<i>Hands-on activity:</i> SAS Viya: Visual Analytics: Interaction Objects & Controls		
		Assign Team Chapter Presentation		879 - 880
		Assignment: Lab 2: Dashboard Interaction Design using SAS Viya (Visual Analytics Report)		618 - 644
	4 2/10	Ch. 5 Tapping into the Power of Visual Perception	Ch. 5	79 – 98
		Ch. 6 Achieving Eloquence through Simplicity	Ch. 6	99- 112
		<i>Hands-on activity:</i> SAP Analytics Cloud & OData Service		
Notes: Visualization and Design Thinking Persona and User Experience Journey Business Process Modeling			113 – 125 126 – 130 131 - 134	
Assignments: Team chapter presentations using SAS Viya & SAP Analytics Cloud				
Data Engineering & Application Development	5 2/17	Reading 1: Ch. 4 Descriptive Analytics II: Business Intelligence, Data Warehousing, and Visualization		135 – 166 200 - 221
		Team Chapter Presentation 1: Ch. 7 – Ch.9: Graphs and Display Media	Ch. 7 - 9	
		Assignment: Lab 3: SAP Analytics Cloud with oData Service		handout
	6 2/24	Reading 1: Ch. 4 Descriptive Analytics II: Business Intelligence, Data Warehousing, and Visualization		166 - 199 221 - 252
		<i>Hands-on activity:</i> In-memory Database Modeling using SAP HANA		673 - 702
		Team Chapter Presentation 2: Ch. 10 – Ch.12: Graphs and Display Media	Ch. 10-12	
		Assignment: Lab 4: SAP HANA Data Modeling: Tables		727 - 746
	7 3/3	Introduction to In-Memory Databases for Analytic Applications		703 - 714
		<i>Hands-on activity:</i> SAP HANA Data Provisioning- the ETL Process		715 - 723
		Assignment: Lab 5 SAP HANA Data Modeling: Attribute Views and Analytical Views		747 – 767
	8 3/10	Reading 2: Ch. 18 Data Warehouse: Dimensional Modeling Process and Tasks		253 – 266 267 - 277
		<i>Hands-on activity:</i> Dashboards and SAP Lumira Designer (Eclipse IDE)		742 - 768
		Midterm Exam: in-class Concept test: 5:30 – 6:30 pm on March 10 Take-home computer operations: due at 4 pm on 3/17		

	Week	Topics	Textbook	Course Pack
Data Engineering	9 3/17	Reading #3: Ch. 17 Data Warehouse and Business Intelligence Life Cycle		278 – 302 303 - 313
		<i>Hands-on activity:</i> Dashboards and SAP Lumira Designer (Eclipse IDE)		742 - 768
		Assignment: Lab 6: Decision Dashboard App Development: Lumira Designer (Eclipse IDE) and SAP BW data source		768 - 784
	100 3/24	Spring break: 3/24 – 4/3, NO CLASSES		
	11 3/31	Reading #4: Data Warehouse Design Example 1: Retail Sales		314 – 355
		Reading #5: Data Warehouse Design Example 2: Order Management		356 – 388
		<i>Hands-on activity:</i> Visualization software connecting to HANA Data Warehouse		
	Assignment: Lab 7: Decision Dashboard App Development: Lumira Designer (Eclipse IDE) and SAP HANA data source		785 – 805	
Predictive and Prescriptive Analytics	12 4/7	Reading #6: Ch. 5 Predictive Analytics I: Data Mining Process, Methods, and Algorithm		389 – 421
		<i>Hands-on activity:</i> SAS Viya: Visual Statistics & Data Mining Cluster Analysis Decision Tree		855 – 862
	13 4/14	Reading #6: Ch. 5 Data Mining & Visualization for Descriptive, Predictive, Prescriptive Analytics		421 -439
		<i>Hands-on activity:</i> SAS Viya: Artificial Neural Networks (ANN)		855 – 856
		Reading 7: Ch. 1 Introduction to Anonymizing Health Data • Exercise: 550 – 5551, course pack		520 – 539 540 – 549
		Assignment: Lab 9 Data Mining: Decision Tree, Cluster Analysis, and ANN		855 – 862
	14 4/21	Ch. 13 Putting it all together in Software Development	Ch. 13	
		<i>Hands-on activity:</i> SAP Analytics Cloud (SAC)		
		Data Warehouse Example 3: Ch. 4 Inventory		Handout
		Reading #8: Ch. 13 De-Identification and Data Quality: A Clinical Data Warehouse		552 – 561 562
		Assignment: Final Exam: Take home computer operation exam: due at 4 pm on 4-28		
	15 4/28	Ch. 14 From Imaging to Unveiling	Ch. 14	
		<i>Hands-on activity:</i> SAP Analytics Cloud (SAC)		
Discussion: Data Mining & Visualization in Data Warehouse and Dashboard Development				
	Assignment: Lab 8: Data Modeling and Dashboard Design using SAP Analytics Cloud (SAC)		806 – 854	
16 5/5	Team Case Presentation			881 – 884
	Course Review			
17 5/12 –5/16	Final Exam Week: Concept Test: 4 pm – 5 pm, Monday, May 12			

Note: * it is possible, due to extenuating circumstances that the exact coverage and sequencing of course content, grading criteria, and weights may change. Students will be notified as far in advance of such changes.

Missouri S&T Campus and UM System Policies

Statement about Copyright, FERPA, and Use of Video

It is vitally important that our classroom environment promotes the respectful exchange of ideas. This entails being sensitive to the views and beliefs expressed during discussions, whether in class or online. Please obtain instructor permission before recording any class activity. It is a violation of the University of Missouri policy to distribute such recordings without authorization and the permission of all who are recorded. More information is provided [online](#).

Classroom Egress Maps

For all in-person instruction, please review where the classroom emergency exits are located. Classroom egress maps are posted at <http://designconstruction.mst.edu/floorplan/>.

Accessibility and Accommodations

It is the university's goal that learning experiences be as accessible as possible. Student Accessibility and Testing provides services and accommodations that facilitate full participation in Missouri S&T's learning experience for students with disabilities. If you anticipate or experience physical, academic, and/or digital barriers due to a disability, please contact Student Accessibility and Testing at (573) 341-6655, email dss@mst.edu, or visit <https://saat.mst.edu/> for information.

Military & Veterans Services Center (MVSC)

The Military & Veteran Services Center at Missouri S&T is dedicated to supporting those who have served, are currently serving, and those who aspire to serve in our nation's armed forces, along with their families. We are committed to fostering a welcoming and inclusive environment that empowers military-connected students to achieve their educational and personal goals. Through tailored resources, academic and career support, and community connections, we aim to enhance the success and well-being of service members, veterans, and their loved ones as they transition into and thrive within higher education here on campus.

Student Well-Being (<https://wellbeing.mst.edu/>)

Student Well-Being provides counseling services, health promotion initiatives, and prevention programs to empower the S&T community to thrive and enhance personal, academic, and professional success.

Department office hours are Monday-Friday, 8 a.m. – 4:30 p.m. On the website, you can find information related to confidential individual and group counseling, wellness consultations and trainings, case management services, resources for many health and wellness topics, and help for mental health crisis situations. For the 988 Suicide and Crisis Lifeline, call or text 988, or visit missouri988.org.

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Health and Well-Being Canvas Course (<https://umsystem.instructure.com/enroll/G3LY3G>)

The Health and Well-Being Canvas Course features trainings, presentations, and other health and well-being resources for students. The course is free for all students, is non-credit, and students can enroll at any point in the semester.

Student Emergency Fund (SEF)

The SEF is administered by the Division of Student Success to help ensure Missouri S&T students have access to the support and resources they need to successfully recover from an unforeseeable financial emergency. The goal of this fund is to prevent one small emergency or unexpected expense from derailing a student's progress toward degree completion.

Nondiscrimination, Equity, and Title IX

Missouri S&T is committed to the safety and well-being of our campus community, and to creating an environment free from discrimination and harassment.

The University prohibits discrimination and harassment on the basis of race, color, national origin, ancestry, religion, sex, pregnancy, sexual orientation, gender identity, gender expression, age, disability, protected veteran status, and any other status protected by applicable state or federal law. As used in this policy, the word "sex" is also inclusive of the term "gender."

Additionally, US Federal Law Title IX states that no member of the university community shall, on the basis of sex, be excluded from participation in, or be denied benefits of, or be subjected to discrimination under any education program or activity. Sexual harassment violations of this law include quid pro quo, hostile environment, sexual assault, dating/domestic violence, and stalking. The U.S. Department of Education has stated the prohibition on discrimination on the basis of sex includes sexual orientation and gender identity.

Students who are experiencing pregnancy or pregnancy-related conditions, including the birthing parent and non-birthing parent, have rights protected under Title IX. Students should contact Student Accessibility and Testing or the Office of Equity and Title IX to learn more about their rights and pregnancy-related assistance/accommodations provided by the University to ensure equitable access to University educational programs and activities.

In accordance with the University of Missouri's Collected Rules and Regulations, all faculty and staff are required to report any information concerning discrimination disclosed through communication including, but not limited to, direct conversation, email, social media, classroom papers and homework exercises to the Equity Officer/Title IX Coordinator.

For more information regarding support for those that have been impacted or to report an incident of discrimination or harassment as defined by [Chapter 600](#) of the University's Collected Rules and Regulations, visit the Office of Equity and Title IX or visit their website at equity.mst.edu.

Office of Equity and Title IX

Equity Officer and Title IX Coordinator: Dr. Paul Hirtz

Phone: (573) 341-7734

Location: 900 Innovation Drive, Suite 500

E-mail: equity@mst.edu

University Libraries

The library provides students and faculty with physical and electronic books, journals, articles and databases as well as recreational reading and video materials. You can also check out laptops, calculators, tool kits and more and reserve study or meeting rooms. Talk to us one-on-one via chat, email, phone or in person for any assistance regarding library services or finding peer-reviewed, credible research materials for study and research needs. Find out more information about the library here: library.mst.edu.

Writing and Communication Center

The Writing and Communication Center's mission is to assist all students in their efforts to become better writers, communicators, and critical thinkers. The Center's peer consultants and coaches provide free individualized one-on-one and small-group conversations to offer meaningful feedback and guidance to students across all disciplines. More information can be found on our website, through email: writing@mst.edu or stop by Curtis Laws Wilson Library 314–315.

Student Success Center

The Student Success Center (SSC) offers peer tutoring and success coaching to help students succeed in their academic goals. Additionally, we work as a resource hub and can connect you to the campus resources necessary to help you dig deeper and finish the semester strong. Visit the SSC in Room 117 Innovation Lab and contact us at ssc@mst.edu or 573-341-7590. To learn more about the SSC, visit <https://ssc.mst.edu/>

S&T Tutoring Opportunities

The Student Success Center (SSC) helps you with your studies in three ways:

- **LEAD Drop-in:** Our LEAD Drop-in service provides convenient access to experienced peer learning assistants for a multitude of courses across campus. No appointments necessary. Simply check our tutoring schedule to discover when support for your specific course is available:
<https://ssc.mst.edu/leaddrop-in/>
- **LEAD Group Sessions:** Our LEAD Group sessions offer after-hours group tutoring, facilitated by our dedicated peer learning assistants in partnership with faculty members. Explore the LEAD Group schedule to see if your course is featured and join us at the next session:
<https://ssc.mst.edu/leadgroup/>
- **Knack Tutoring:** If your schedule clashes with our LEAD offerings, or if your course isn't covered, Knack is your solution. Request a tutor for either a virtual meeting or an in-person session on campus, ensuring you get the help you need, when you need it. To sign up for your FREE Knack account, visit:
<https://ssc.mst.edu/knacktutoring/>