MET CS 682 Information Systems Analysis and Design 2025 Fall 1 Online Course Syllabus

Instructor

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Course Duration

Start: September 2, 2025 End: October 20, 2025

Course credits

4 credits

Course Description

This course describes modern methods of information system analysis and design for organizations with IT resources. It introduces the discovery process for system feasibility, describes stakeholder analysis, and covers requirements analysis. The course explains use cases and their application to requirements analysis. It covers the management of system analysis projects and risks. "Build vs. buy" trade-offs are discussed. The Unified Modeling Language for specifying object-oriented system designs is discussed. Data flow diagrams and activity models are integrated with the analysis and design coverage. The course covers most of the fundamental system architectures, as well as approaches to detailed design.

Prerequisites: None

Course Learning Objectives

This course is designed to enable you to do the following

- Recognize various types of business systems
- Explain and summarize a proposed systems analysis project
- Recognize various software development process approaches including Rapid Application Development (RAD) and Agile approaches.
- Recognize project management dynamics within software projects
- Understand and apply requirements gathering techniques
- Recognize and apply various architectural and detailed design approaches
- Recognize and apply goals of good system design
- Understand and apply UML models

By reading the lectures and completing the assignments in this course, you will be able to do the following:

- Perform systems analysis:
 - o Develop written functional and non-functional requirements
 - Create written use cases and scenarios
 - Develop graphical user interface mock-ups
- Identify how to best implement and manage a project within the Software Development Lifecycle (SDLC) including various Agile methodologies.
- Better predict and deal with risks
- Integrate the use of classes in Object-Orientation
- Relate one class to another through inheritance, aggregation and dependencies
- Create class, sequence, activity, data flow, and state transition UML diagrams
- Understand and apply tradeoffs within design goals
- Construct system architectures and detailed designs

Week-by-Week Topics

Week 1 — Introduction and Process

- Types of Information Systems
- Systems Analysis
- Process
- Introduction to System Analysis Methodology
- Participants in Systems Analysis

Week 2 — The Management of System Analysis

- System Requirements and System Design
- Systems Development Methodologies
 - Structured—Waterfall, Parallel
 - Rapid Application Development (RAD)—Phased, Prototyping, Throwaway Prototyping
 - Agile—Scrum, Extreme Programming (XP), Lean, Kanban, Scaled Agile Framework (SAFe)
- Trade-offs and selecting a suitable development methodology
- Tools of Project Management
 - WBS, Gantt, Software
- Project estimation techniques
 - o PERT
 - Variables and factors
 - Agile: Planning Poker
- Managing Scope

- Scope Creep, timeboxing
- Managing Risks
- Managing Teams
 - Individuals
 - Teams
 - Team Leadership
 - Organization culture and structure

Week 3 — System and Requirements Analysis

- The meaning and sources of requirements
 - o Identifying stakeholders
- Requirements gathering strategies and techniques
 - Interview strategies and problem-solving
- Documenting requirements
 - Overview-mission statement
 - Functional and non-functional requirements
 - User stories
 - Use cases
- User interface and interface requirements
 - o Principles for user interface design
- The modeling of requirements
 - Introduction to Unified Modeling Language (UML)
 - State transition diagrams
- Methods of organizing requirements a summary

Week 4 — Modeling with UML

- Classes in UML
 - o Entity Classes, Attributes, Methods, Non-Entity Classes
 - Textual Analysis strategies to determine objects
 - Example of extracting classes, attributes and methods from a use case
 - Class relationships in UML
 - Inheritance, Association, Aggregation, Composition, Other Dependencies
 - Class diagrams
 - Detailed sequence diagrams

Week 5 — System Architectures

- Design purposes
- Software frameworks
- More on data flow diagrams
- ATAM Design and Tradeoffs
- Categorizing system architectures

Component technology

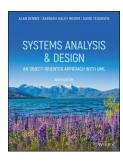
Week 6 — Detailed Design

- Design in the Unified Development Process
- Designing against component interfaces
- Specifying classes and functions for design
- Software reuse
- Detailed sequence diagrams and data flow diagrams
- Standards for detailed design
- · Estimating cost of software

Week 7 — Final Exam

Course Materials

Recommended Books



Dennis, Wixom, & Tegarden. (2020). *Systems Analysis and Design: An Object-Oriented Approach with UML* (6th ed.). John Wiley and Sons. ISBN: 978-1119559917.

Welcome To First Day[™] Delivery For Your Course

To enhance your learning experience and simplify access to the right materials for your class, your course materials have been integrated directly into your course.

Benefits of The Program

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Accessing Your Materials

To access the required materials for your course, click on *Course Materials (Barnes & Noble)* in the left-hand menu in Blackboard. To navigate back to the course, click on the course title at the top left of your Blackboard screen.

Boston University will bill you at the discounted price as a course charge for this course. Please be advised it is NOT recommended that you Opt-Out, as these materials are required by your professor to complete the course. You can choose to Opt-Out on the first day of class, but you will be responsible for purchasing your course materials at the Opt-Out price.

For more information and FAQs visit Barnes and Noble at Boston University <u>customer care</u> page.

For students who opt-out an eBook may be available at Vitalsource.com or through Amazon. Students may also use the 13th edition.

Other Resources

- For definitions and terms, and for pointing you to references, Wikipedia can sometimes be useful. However, remember that information at Wikipedia is erratically curated, and entries have been manipulated by a variety of people for a variety of reasons. You are free to use Wikipedia as a starting point and as a source of pointers to higher-quality information, however avoid citing Wikipedia (or similar sources that have not been reviewed professionally for veracity) as authorities.
- The UML specifications are at http://uml.org/ (but you will find them very dense and formal indeed).
- You have the option of using Visio or Lucidchart in this course for UML. However, you
 are free to use other tools if you wish.

Module 1 Study Guide and Deliverables (September 2 – September 8)

Readings:

Primary Reading for Module 1:

The following readings should be completed after reading the module parts that they pertain to.

- Pages 1-4: Introduction, Typical Systems Analyst Roles and Skills
- Pages 4-6: The Systems Development Lifecycle
- Pages 43-44: Project Identification
- Pages 53-55: Project Selection

Secondary Reading for Module 1

The following readings are not required, however they provide additional depth and examples for concepts in this module.

- Pages 424-427: Ubiquitous Computing and the Internet of Things
- Pages 138-148: Business Process Modeling with Activity Diagrams

Assignments

- Optional Draft Assignment 1 due **Sunday, September 7** at 6:00 PM ET
- Assignment 1 due Thursday, September 11 at 6:00 PM ET

Assessments:

- Crediting Sources Tutorial Self-Assessment due Saturday, September 6 at 6:00 PM ET
- Al Usage Quiz due Saturday, September 6 at 6:00 PM ET

Live Classrooms:

- Tuesday, September 2 from 8:00-10:00 PM ET Class Lecture
- Wednesday, September 3 from 8:00-9:00 PM ET Assignment Preview
- Live Office: Saturday, September 6 at 10:00 AM ET

Module 2 Study Guide and Deliverables (September 9 – September 15)

Readings:

Primary Reading for Module 2 Part 1

The following readings should be completed after reading the module parts that they pertain to.

Pages 7-17: Systems Development Methodologies

Primary Reading for Module 2 Part 2

The following readings should be completed after reading the module parts that they pertain to.

- Pages 41-43: Introduction to Project Management
- Pages 55-60: Traditional Project Management Tools
- Pages 65-74: Creating and Managing the Workplan (read Managing Scope, Timeboxing, Managing Risk Agile Alternatives to Iterative Workplans-Kanban)

• Pages 74-80: Staffing the Project (focus on Characteristics of a Jelled Team, Staffing Plan, Motivation, Handling Conflict)

Secondary Reading for Module 2 Part 1

The following readings are not required, however provide additional depth and examples for concepts in this module.

- Pages 275-280: Design Strategies (Custom Development, Packaged Software, Outsourcing, Selecting a Design Strategy)
- Scrum Guide (18 pages)
- <u>Scaled Agile Framework White Paper</u> (28 pages)
- Please see Appendix Sections for additional suggested readings.

Secondary Reading for Module 2 Part 2

The following readings are not required, however they provide additional depth and examples for concepts in this module.

- Pages 45-53: Feasibility Analysis
- Pages 83-85: CASE Tools, Standards, Documentation
- Pages 453-457: Managing Programming

Assignments:

- Optional Draft Assignment 2 due **Sunday, September 14** at 6:00 PM ET
- Assignment 2 due Thursday, September 18 at 6:00 PM ET

Live Classrooms:

- Tuesday, September 9 from 8:00-10:00 PM ET Class Lecture
- Wednesday, September 10 from 8:00-9:00 PM ET Assignment Preview
- Live Office: Saturday, September 13 at 10:00 AM ET

Module 3 Study Guide and Deliverables (September 16 – September 22)

Readings:

Primary Reading for Module 3:

The following readings should be completed after reading the module parts that they pertain to.

Meaning and sources of requirements and requirements gathering strategies and techniques

- Pages 96-98: Requirements Determination (read "Defining a Requirement")
- Pages 119-120: User Stories

User Interface Requirements

• Pages 365-369: Principles for User Interface Design

The Modeling of Requirements

Pages 26-28: The Unified Modeling Language

Secondary Reading for Module 3

The following readings are not required, however they provide additional depth and examples for concepts in this module.

Requirements Analysis

 Pages 99-115: Requirements Analysis Approaches, Requirements—Gathering Techniques

Non-Functional Requirements

- Pages 434-436: Hardware and System Software Specifications
- Pages 436-443: Non-functional Requirements and Physical Architecture Layer Design
- Pages 404: Non-functional Requirements and Human-Computer Interaction Layer Design
- Pages 344-345: Non-functional Requirements and Data Management Layer Design

Use Cases (Note: The methodology in the textbook differs slightly from what is provided in the module)

- Pages 134-135: Identifying Major Use Cases
- Pages 148-160: Business Process Documentation with Use Cases and User Case Descriptions

Human-Computer Interaction Design

• Pages 364-407: Chapter 10 Human-Computer Interaction Layer Design

State Machines (Note: The textbook introduces state machine diagraming through an object-oriented approach, which is covered in the next module.)

- Pages 232-239: Behavioral State Machines
- Pages 239-241: Examples of Creating Behavioral State Machine Diagrams

- Pages 376-377: Windows Navigation Diagrams (MND), which are based on state transition diagrams.
- Pages 371-373: Navigation Structure Design
- OMG Unified Modeling Language Specification (opens PDF) from OMG v 2.5

Assignments:

- Optional Draft Assignment 1 due **Sunday, September 21** at 6:00 PM ET
- Assignment 1 due Thursday, September 25 at 6:00 PM ET

Live Classrooms:

- Tuesday, September 16 from 8:00-10:00 PM ET Class Lecture
- Wednesday, September 17 from 8:00-9:00 PM ET Assignment Preview
- Live Office: Saturday, September 20 at 10:00 AM ET

Module 4 Study Guide and Deliverables (September 23 – September 29)

Readings:

Primary Reading for Module 4:

The following readings should be completed after the module parts that they pertain to.

- Pages 32-39: Basic Characteristics of Object-Oriented Systems
- Pages 169-173: Structural Modeling: (read "Introduction," "Structural Models," and "Object Identification"—through "Textual Analysis" only)
- Pages 176-190: Class Diagrams
- Pages 215-224: Sequence Diagrams

Secondary Reading for Module 4

The following readings are not required, however they provide additional depth and examples for concepts in this module.

- Pages 224-229: Examples of Building Sequence Diagrams
- Pages 373: 2nd Paragraph on Stereotypes

Supplementary Reference

• OMG Unified Modeling Language Specification (opens PDF) from OMG v 2.5

Assignments:

• Optional Draft Assignment 1 due Sunday, September 28 at 6:00 PM ET

Assignment 1 due Thursday, October 2 at 6:00 PM ET

Live Classrooms:

- Tuesday, September 23 from 8:00-10:00 PM ET Class Lecture
- Wednesday, September 24 from 8:00-9:00 PM ET Assignment Preview
- Live Office: Saturday, September 27 at 10:00 AM ET

Module 5 Study Guide and Deliverables (September 30 – October 6)

Readings:

Primary Reading for Module 5:

The following readings should be completed after reading the module parts that they pertain to.

- Pages 263-270: Packages and Package Diagrams
- Pages 270-274: Design Criteria (read "Coupling," "Cohesion")

Secondary Reading for Module 5

The following readings are not required, however they provide additional depth and examples for concepts in this module.

- Pages 289-300: Object Design Activities
- Pages 414-421: Physical Architecture Layer Design
- Pages 422-428: Cloud Computing, Ubiquitous Computing and the Internet of Things, Green IT

The *Encounter* video game case study will be referenced in this module.

Assignments:

- Optional Draft Assignment 1 due **Sunday, October 5** at 6:00 PM ET
- Assignment 1 due Thursday, October 9 at 6:00 PM ET

Live Classrooms:

- Tuesday, September 30 from 8:00-10:00 PM ET Class Lecture
- Wednesday, October 1 from 8:00-9:00 PM ET Assignment Preview
- Live Office: Saturday, October 4 at 10:00 AM ET

Module 6 Study Guide and Deliverables (October 7 – October 13, 2025)

Readings:

Primary Reading for Module 6:

The following readings should be completed after reading the module parts that they pertain to.

- Pages 310-314: Method Specification
- Pages 60-65: Project Effort Estimation

Secondary Reading for Module 6:

The following readings are not required, however they provide additional depth and examples for concepts in this module.

- Pages 138-148: Business Process Modeling with Activity Diagrams
- <u>Techniques for Estimating Planning Poker</u> (opens PDF), Mountaingoatsoftware (12 pages)

The *Encounter* video game case study will be referenced in this module.

Assignments:

- Optional Draft Assignment 1 due Sunday, October 12 at 6:00 PM ET
- Assignment 1 due Thursday, October 16 at 6:00 PM ET

Live Classrooms:

- Tuesday, October 7 from 8:00-10:00 PM ET Class Lecture
- Wednesday, October 8 from 8:00-9:00 PM ET Assignment Preview
- Live Office: Saturday, October 11 at 10:00 AM ET

Course Evaluation:

Please complete the <u>course evaluation</u> once you receive an email or Blackboard notification indicating the evaluation is open. Your feedback is important to MET, as it helps us make improvements to the program and the course for future students.

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The Final Exam is a proctored exam available from Wednesday, October 15, 2025, at 6:00 AM ET to Saturday, October 18, 2025, at 11:59 PM ET.

The Computer Science department requires that all final exams be administered using an online proctoring service, which you will access via your course in Blackboard. In order to take the exam, you are required to have a working computer, webcam, speakers, and microphone that meet the proctoring service's system requirements. A detailed list of those requirements can be found in the Proctored Exam Information module located on the course home page. Additional information regarding your proctored exam will be forthcoming from the Assessment Administrator. You will be responsible for scheduling your proctored exam session within the defined exam window.

The Final Exam will be **open book/open notes** and accessible only during the final exam period. You can access it from the Assessments section of the course. Your proctor will enter the password to start the exam.

Final Exam duration: three hours.

Microsoft Azure Dev Tools for Teaching

In this class you will use **Visio Professional** or **LucidChart** to create UML diagrams (although you may use another tool with your instructor's permission).

Metropolitan College is a member of Azure Dev Tools for Teaching (formerly Microsoft Imagine), a Microsoft program that supports technical education by providing access to most Microsoft software for learning, teaching, and research purposes. Our membership allows faculty and students currently enrolled in MET courses to obtain certain Microsoft products free of charge. All MET students are granted access to download the software for the duration of their study at MET College.

FAQ and basic information are at Microsoft Azure Dev Tools for Teaching.

If you choose to use LucidChart we suggest that you access it using your BU Google Apps account. Information can be found here to set up your Google Apps account: http://www.bu.edu/tech/support/google/

Evaluation of Students and Grading

Absorbing and creating IT perspectives will be expected of all students in the class.

Note: To help the teaching team clarify points in students' work, grades are subject to students possibly being required to answer questions orally about the work they have submitted. Reasonable notice will be given.

Draft Assignments

These questions are similar to what you will find on the same week's assignments and are intended to help you with the associated subject matter so that you can get feedback before your assignment for that week is due. We encourage you to start the draft assignment at the beginning of each week so that you are familiar with its question, you can work on it through the week up until the draft assignment deadline.

Weekly Assignments/Term Project

Most of the content of the course will be explored through weekly assignments that study actual cases or encourage you to extrapolate from your own organizations and experiences. These are counted equally.

Final Exam

There will be a proctored Final Exam in this course using a proctor service. Detailed instructions regarding your proctored exam will be forthcoming from the Assessment Administrator. You will be responsible for scheduling your own appointment.

The exam will be three hours long and will be similar in format to the weekly homework assignments. This provides you with the opportunity to show what you have learned from reading the material, participating in the discussions, and doing the homework.

Grade Computations

The course grade will be computed from the following::

• Assignments: 60%

Draft Assignments (recommended, but optional): N/A

Proctored Final Exam: 40%

Rubric

The weekly assignments are graded according to the evaluation matrices on the pages that follow. These are averaged using the following scale: A+=100, A=95, A-=90, B+=87, B=85, B-=80, C+=77, C=75, C-=70, D+=67, and D=65. When a paper is considered to be perfect, a score of 100 can be entered.

To get an A grade for the course, your weighted average should be > 93. For an A-, = 90, B+ = 87, B > 83, B- = 80, etc.

By the time grades are submitted to the registrar, the class average will be approximately 87 (B+).

Grades typically start lower, allowing room for growth as the term progresses. The Draft Assignments are not currently graded.

Note: An "A" grade at Boston University is reserved for excellent work. If you are given an A, you are to be especially congratulated. The university officially designates good work as deserving of a "B" and we reward good work with a "B" accordingly. It is our obligation to tell you as far as we can what would improve your work. (That can sometimes be hard if you receive an A, of course.) If you don't see such feedback, please remind your facilitator about it. Grades are an excellent motivator but they are only the means to an end rather than ends in themselves. The average grade in graduate courses is usually expected to be a B+. If the course average turns out to be less than this at the end of the term, and the class performance is not less than average, I am able to elevate some grades that fall on borderlines.

Expectations

We recognize that emergencies occur in professional and personal lives. If one occurs that prevents your completion of homework by a deadline, please make this plan to your facilitator. This must be done in advance of the deadline (unless the emergency makes this impossible, of course) and should be accompanied by particulars that back it up. Additional documentation may be requested.

Penalties for Late Work (Assignments)

- Late after deadline 10% grade reduction
- 2 days late 50% grade reduction

Grading Criteria for Homework

Unless otherwise specified, homework will be evaluated according to the following criteria, weighted equally.

Criteria	D	C+	В-	B+	A
	C-				
Clarity	Disorganized or hard-to-understand	Satisfactory but some parts of the submission are disorganize d or hard to understand	Generally organized and clear	Very clear, organized and persuasive presentatio n of ideas and designs	Exceptional ly clear, organized and persuasive presentatio n of ideas and designs

Technical Soundness	Little understanding of or insight into material technically		Some understandi ng of material technically	Overall understandi ng of much material technically	Very good overall understandi ng of technical material, with some real depth	Excellent, deep understanding of technical material and its interrelationships
Thoroughn ess & Coverage	Hardly covers any of the major relevant issues		Covers some of the major relevant issues	Reasonable coverage of the major relevant areas	Thorough coverage of almost all of the major relevant issues and researched where appropriate	Exceptional ly thorough coverage of all major relevant issues and researched where appropriate
Relevance	Mostly unfocus ed	Focus is off topic or on insubstantial or secondary issues	Only some of the content is meaningful and on topic	Most or all of the content is reasonably meaningful and ontopic	All of the content is reasonably meaningful and ontopic	All of the content is entirely relevant and meaningful

Academic Conduct Code

Academic Integrity: Plagiarism is the passing off of another's words or ideas as your own, and it is a serious academic offense. Plagiarism and cheating also defeat the purpose of getting an education. Plagiarism and cheating cases will be handled in accordance with the disciplinary procedures described in the College of Arts and Sciences Academic Conduct Code. You are expected to know and abide by the code, which can be read online: <u>Academic Conduct Code</u>. Penalties range from failing an assignment or course (first offense) to suspension or expulsion from BU. If in doubt, cite your source. If you have any questions about academic integrity, please ask your instructor.

Incidents of academic misconduct will be reported to the Academic Conduct Committee (ACC). The ACC may suspend/expel students found guilty of misconduct.

Important Message on Final Exams

Dear Boston University Computer Science Online Student,

As part of our ongoing efforts to maintain the high academic standard of all Boston University programs, including our online MSCIS degree program, the Computer Science Department at Boston University's Metropolitan College requires that each of the online courses includes a proctored final examination.

By requiring proctored finals, we are ensuring the excellence and fairness of our program. The final exam is administered online.

Specific information regarding final-exam scheduling will be provided approximately two weeks into the course. This early notification is being given so that you will have enough time to plan for where you will take the final exam.

I know that you recognize the value of your Boston University degree and that you will support the efforts of the University to maintain the highest standards in our online degree program.

Thank you very much for your support with this important issue.

Regards,

Professor Lou Chitkushev, Ph.D.

Associate Dean for Academic Affairs

Boston University Metropolitan College

Who's Who: Roles and Responsibilities

You will meet many BU people in this course and program. Some of these people you will meet online, and some you will communicate with by email and telephone. There are many people behind the scenes, too, including instructional designers, faculty who assist with course preparation, and video and animation specialists.

People in Your Online Course in Addition to Your Fellow Students

Your Facilitator. Our classes are divided into small groups, and each group has its own facilitator. We carefully select and train our facilitators for their expertise in the subject matter and their excellence in teaching. Your facilitator is responsible for stimulating discussions in pedagogically useful areas, for answering your questions, and for grading homework assignments, discussions, term projects, and any manually graded quiz or final-exam questions. If you ask your facilitator a question by email, you should get a response within 24 hours, and usually faster. If you need a question answered urgently, post your question to one of the urgent help topics, where everyone can see it and answer it.

Your Professor. The professor for your course has primary responsibility for the course. If you have any questions that your facilitator doesn't answer quickly and to your satisfaction, then send your professor an email in the course, with a cc to your facilitator so that your facilitator is aware of your question and your professor's response.

Your Faculty and Student Support Administrator, Rachel Regis. Rachel is here to ensure you have a positive online experience. You will receive emails and announcements from Rachel throughout the semester. Rachel represents Boston University's university services and works for BU Virtual. She prepares students for milestones such as course launch, final exams, and course evaluations. She is a resource to both students and faculty. For example, Rachel can direct your university questions and concerns to the appropriate party. She also handles general questions regarding Online Campus functionality for students, faculty, and facilitators, but she does not provide tech support. She is enrolled in all classes and can be contacted within the course through Online Campus email as it is running. You can also contact her by external email at bleug@bu.edu.

People Not in Your Online Course

Although you will not normally encounter the following people in your online course, they are central to the program. You may receive emails or phone calls from them, and you should feel free to contact them.

Your Computer Science Department Online Program Coordinator. The online program coordinator administers the academic aspects of the program, including admissions and registration. You can ask questions about the program, registration, course offerings, graduation, or any other program-related topic. The online program coordinator can be reached at metcsol@bu.edu or (617) 353-2566.

Your Computer Science Department Program Manager, Crystal Kelley. Crystal is responsible for administering most aspects of the Computer Science Department. You can reach Crystal at kelleycr@bu.edu or (617) 353-2566.

Andrew Gorlin, Academic Advisor. Reviews requests for transfer credits and waivers. Advises students on which courses to take to meet their career goals. You can reach Andrew at asgorlin@bu.edu, or (617)-353-2566.

Professor Guanglan Zhang, Computer Science Department Chairman. You can reach Professor Zhang at guanglan@bu.edu or at 617-358-2566.

Professor Lou T. Chitkushev, Associate Dean for Academic Affairs, Metropolitan College. Dr. Chitkushev is responsible for the academic programs of Metropolitan College. Contact Professor Chitkushev with any issues that you feel have not been addressed adequately. The customary issue-escalation sequence after your course facilitator and course faculty is Professor Temkin, and then Professor Chitkushev.

Professor Tanya Zlateva, Metropolitan College Dean. Dr. Zlateva is responsible for the quality of all the academic programs at Boston University Metropolitan College.

Disability and Access Services

In accordance with university policy, every effort will be made to accommodate students with respect to speech, hearing, vision, or other disabilities. Any student who may need an accommodation for a documented disability should contact <u>Disability and Access Services</u> at 617-353-3658 or at <u>access@bu.edu</u> for review and approval of accommodation requests.

Once a student receives their accommodation letter, they must send it to their instructor and/or facilitator each semester. They must also send a copy to their Faculty & Student Support Administrator, who may need to update the course settings to ensure accommodation is in place. Accommodation cannot be implemented if the students do not send their letters.