*October 2022*

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| * The college deadline to submit the completed Liberal Education Course Proposal form to Academic Affairs is February 1, 2023. Please consult your college and department for internal deadlines. Note: If the course is new, the department must also submit the separate New Course Proposal through the college's curriculum review and approval process for submission to Academic Affairs (details, dates, form: <https://evcaa.d.umn.edu/curriculum-management/course-proposal-processes>).
* Form approvals may be submitted through email as an attachment. Signatures may be provided on the form or with approval documented within the email message.
* Departments and colleges may involve curriculum committees as advisory in their review procedures. The campus Liberal Education Subcommittee reviews all Liberal Education course proposals for Academic Affairs.

**Category Description** Courses approved for liberal education credit in Logic and Quantitative Reasoning will develop students’ logic and/or quantitative reasoning skills and enable them to apply these skills to a variety of everyday situations.SLO 1: Students will appropriately translate problems to symbolic systems.SLO 2: Students will apply mathematical or logical reasoning to identify potential solutions.SLO 3: Students will evaluate whether mathematical or logical reasoning and conclusions are valid. |
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|  | Name (print) | Signature | Date |
| Department Head/Representative |  |  |  |
| Dean *(or college designee)* |  |  |  |
| Academic Affairs |  |  |  |
|  |  |  |  |
| Effective Term | Fall 2023 |
| Faculty Contact |  |
| Course Designator |  |
| [Catalog Number](http://www.dumn.edu/vcaa/Coursenumbering.html)  |  |
| Course Title  |  |
| Number of credits |  |
| Course Description*(Must match approved course or course proposal description)* |  |
| Has this course been approved by Academic Affairs? |  |
| How often will the course be offered? (every year, every other year) |  |
| **Category Criteria**This section asks how the course will address all of the criteria for this category. Please use examples to help illustrate that the course will substantially address the following criteria.*100 word minimum for each item response.* |
| Describe how the course will enable students to understand and use symbolic systems. [response required] |
| Describe how the course will develop students’ ability to recognize and exercise valid reasoning. [response required] |
| Describe how the course will help students to analyze and evaluate quantitative and/or logical problems. [response required] |
| **Course Assessment** This section asks how the course will assess students’ proficiency in each student learning outcome (SLO) associated with this category. A full response to each question will include two parts as identified below and described in the Liberal Education Assessment Course Proposal Guide: <https://z.umn.edu/libedproposalassessguide>.1. A clear statement of which course assessment(s) (or portion of an assessment) will provide a clear measure of the SLO, and why that assessment is a good fit for that SLO.
2. A brief description of what students must do/achieve on the assessment to have reached the level of proficiency for the SLO described on the rubric for this category. Level 1 is typically used as the proficiency for lower-division courses; Level 3 is common for upper-division courses: <https://assessment.d.umn.edu/liberal-education-assessment/category-rubrics>.

Note: For new courses faculty are encouraged to use the Liberal Education category SLOs as the course learning outcomes on the course proposal.  |
| SLO 1: Describe (1) how students will “appropriately translate problems to symbolic systems” and (2) how you will determine whether they have achieved proficiency as described in the category rubric. [response required] |
| SLO 2: Describe (1) how students will “apply mathematical or logical reasoning to identify potential solutions” and (2) how you will determine whether they have achieved proficiency as described in the category rubric. [response required] |
| SLO 3: Describe (1) how students will "evaluate whether mathematical or logical reasoning and conclusions are valid” and (2) how you will determine whether they have achieved proficiency as described in the category rubric. [response required] |