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| For Academic Affairs and Research Use Only | |
| Proposal Number | SM07 |
| CIP Code: |  |
| Degree Code: |  |

**New or Modified Course Proposal Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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| --- |
| **[ ]New Course, [ ]Experimental Course (1-time offering), or X]Modified Course (Check one box)** |

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

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| --- | --- |
| Hong Zhou 3/11/2022 **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Amanda Lambertus 3/11/2022 **Department Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (if applicable)** |
| John Hershberger 3/16/2022  **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| Lynn Boyd 3/17/2022 **Director of Assessment (new courses only)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Vice Chancellor for Academic Affairs** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **General Education Committee Chair (if applicable)** |  |

1. **Contact Person (Name, Email Address, Phone Number)**

Amanda Lambertus

[alambertus@astate.edu](mailto:alambertus@astate.edu)

972-3090

1. **Proposed starting term and Bulletin year for new course or modification to take effect**

Bulletin updates will be effective for 2022-2023 year and beyond.

**Instructions:**

*Please complete all sections unless otherwise noted. For course modifications, sections with a “Modification requested?” prompt need not be completed if the answer is “No.”*

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|  | **Current (Course Modifications Only)** | **Proposed (New or Modified)**  *(Indicate “N/A” if no modification)* |
| **Prefix** | **MATH** | **N\A** |
| **Number\*** | **1023, 1033, 1054, 2143, 2183, 2194, 2204** | **N\A** |
| **Title**  (include a short title that’s 30 characters or fewer) |  | **N\A** |
| **Description\*\*** |  | **Descriptions will update the SAT Math Pre-requisite requirements only for each of the listed courses.** |

***\**** Confirm with the Registrar’s Office that number chosen has not been used before and is available for use. For variable credit courses, indicate variable range. *Proposed number for experimental course is 9*.

\*\*Forty words or fewer (excepting prerequisites and other restrictions) as it should appear in the Bulletin.

1. **Proposed prerequisites and major restrictions** **[Modification requested? Yes]**

(Indicate all prerequisites. If this course is restricted to a specific major, which major. If a student does not have the prerequisites or does not have the appropriate major, the student will not be allowed to register).

1. YES Are there any prerequisites?
   1. If yes, which ones?

MATH 1023: Prerequisite, High School Algebra II and score of 21 or above on ACT Math or 560 or above on SAT Mathematics or 47 or above on COMPASS Algebra or a grade of C or better in MATH 0013 or completion of 9 modules in MATH 0173 and MATH 022V.

MATH 1033: Prerequisite, High School Algebra II and score of 21 or above on Math ACT or 560 or above on Math SAT, or a grade of C or better in MATH 0013 or completion of 9 modules in MATH 0173 or MATH 022V or Corequisite, MATH 1023

MATH 1054: Prerequisite, High School Algebra II and score of 24 or above on Math ACT or 610 or above on Math SAT, or MATH 1023

MATH 2143: Prerequisite, MATH 1023 or MATH 1054 or a Math ACT score of 26 or a Math SAT score of 670

MATH 2183: Prerequisites, High School Algebra II and score of 22 or above on Math ACT or 580 or above on SAT, or MATH 1054

MATH 2194: Prerequisites, MATH 1023 or MATH 1054 or a Math ACT score of 26 or a Math SAT score of 670

MATH 2204: Prerequisites, High School Trigonometry and score of 26 or above on math ACT or 670 or above on Math SAT, or MATH 1023 and MATH 1033 or MATH 1054

* 1. Why or why not?

We are updating the bulletin to reflect the current placement practices that match the RSAT 2018 scores.

1. **Yes / No** Is this course restricted to a specific major?
   1. If yes, which major? Enter text...
2. **Proposed course frequency [Modification requested? Yes/No]**

(e.g. Fall, Spring, Summer; if irregularly offered, please indicate, “irregular.”) *Not applicable to Graduate courses.*

Enter text...

1. **Proposed course type [Modification requested? Yes/No]**

Will this course be lecture only, lab only, lecture and lab, activity (e.g., physical education), dissertation/thesis, capstone, independent study, internship/practicum, seminar, special topics, or studio? Please choose one.

Enter text...

1. **Proposed grade type [Modification requested? Yes/No]**

What is the grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental, or other [please elaborate])

Enter text...

1. **Yes / No** Is this course dual-listed (undergraduate/graduate)?
2. **Yes / No** Is this course cross-listed?

*(If it is, all course entries must be identical including course descriptions. Submit appropriate documentation for requested changes. It is important to check the course description of an existing course when adding a new cross-listed course.)*

**a.** – If yes, please list the prefix and course number of the cross-listed course.

Enter text...

**b.** – **Yes / No** Can the cross-listed course be used to satisfy the prerequisite or degree requirements this course satisfies?

Enter text...

1. **Yes / No** Is this course in support of a new program?

a. If yes, what program?

Enter text...

1. **Yes / No** Will this course be a one-to-one equivalent to a deleted course or previous version of this course (please check with the Registrar if unsure)?

a. If yes, which course?

Enter text...

**Course Details**

1. **Proposed outline** **[Modification requested? Yes/No]**

(The course outline should be topical by weeks and should be sufficient in detail to allow for judgment of the content of the course.)

Enter text...

1. **Proposed special features** **[Modification requested? Yes/No]**

(e.g. labs, exhibits, site visitations, etc.)

Enter text...

1. **Department staffing and classroom/lab resources**

Enter text...

1. Will this require additional faculty, supplies, etc.?

Enter text...

1. **Yes / No** Does this course require course fees?

*If yes: please attach the New Program Tuition and Fees form, which is available from the UCC website.*

**Justification**

**Modification Justification (Course Modifications Only)**

1. Justification for Modification(s)

The proposal is only informational and to update the A-State Bulletin with the correct SAT math scores.

**New Course Justification (New Courses Only)**

1. Justification for course. Must include:

a. Academic rationale and goals for the course (skills or level of knowledge students can be expected to attain)

Enter text...

b. How does the course fit with the mission of the department? If course is mandated by an accrediting or certifying agency, include the directive.

Enter text...

c. Student population served.

Enter text...

d. Rationale for the level of the course (lower, upper, or graduate).

Enter text...

**Assessment**

**Assessment Plan Modifications (Course Modifications Only)**

1. **Yes / No** Do the proposed modifications result in a change to the assessment plan?

*If yes, please complete the Assessment section of the proposal*

**Relationship with Current Program-Level Assessment Process (Course modifications skip this section unless the answer to #18 is “Yes”)**

1. What is/are the intended program-level learning outcome/s for students enrolled in this course? Where will this course fit into an already existing program assessment process?

Enter text...

1. Considering the indicated program-level learning outcome/s (from question #19), please fill out the following table to show how and where this course fits into the program’s continuous improvement assessment process.

*For further assistance, please see the ‘Expanded Instructions’ document available on the UCC - Forms website for guidance, or contact the Office of Assessment at 870-972-2989.*

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| **Program-Level Outcome 1 (from question #19)** | Type outcome here. What do you want students to think, know, or do when they have completed the course? |
| Assessment Measure | Please include direct and indirect assessment measure for outcome. |
| Assessment  Timetable | What semesters, and how often, is the outcome assessed? |
| Who is responsible for assessing and reporting on the results? | Who (person, position title, or internal committee) is responsible for assessing, evaluating, and analyzing results, and developing action plans? |

*(Repeat if this new course will support additional program-level outcomes)*

**Course-Level Outcomes**

1. What are the course-level outcomes for students enrolled in this course and the associated assessment measures?

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| **Outcome 1** | Type outcome here. What do you want students to think, know, or do when they have completed the course? |
| Which learning activities are responsible for this outcome? | List learning activities. |
| Assessment Measure | What will be your assessment measure for this outcome? |

*(Repeat if needed for additional outcomes)*

**Bulletin Changes**

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| **Instructions** |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Please include a before (with changed areas highlighted) and after of all affected sections.**  **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.** |

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**MATH 1023. College Algebra** Equations and inequalities, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, systems of equations and inequalities, and miscellaneous topics. No credit given if taken following MATH 1054. Prerequisite, High School Algebra II and score of 21 or above on ACT Math or 530 or above on SAT Mathematics or 47 or above on COMPASS Algebra or a grade of C or better in MATH 0013 or completion of 9 modules in UC 0173 and UC 022V. Fall, Spring, Summer. (ACTS#: MATH 1103)

**MATH 1033. Plane Trigonometry**  Right triangles and similar triangles, trigonometric ratios, degrees, and radians, trigonometric functions, circular functions, trigonometric identities, inverse trigonometric functions, trigonometric equations, Law of Sines, Law of Cosines, vectors, polar coordinates, and complex numbers. No credit given if taken following MATH 1054. Prerequisite, High School Algebra II and score of 21 or above on Math ACT or 530 or above on Math SAT, or a grade of C or better in MATH 0013 or completion of 9 modules in UC 0173 or UC 022V or Corequisite, MATH 1023. Fall, Spring, Summer. (ACTS#: MATH 1203)

**MATH 1043. Quantitative Reasoning** Quantitative reasoning as the approach to understanding relationships using mathematical and algebraic methodologies. Contemporary topics will be used to identify, analyze, generalize, and communicate quantitative relationships. Prerequisite, High School Algebra II and score of 19 or above on ACT Math or 500 or above on SAT Mathematics or 36 or above on COMPASS Algebra or 42 or above on ASSET Algebra or a grade of C or better in MATH 0013 or completion of 12 modules in UC 0173 and UC 022V. Fall, Spring, Summer. (ACTS#: MATH 1003)

**MATH 1054. Precalculus Mathematics**  Selected topics from algebra, trigonometry, and analytic geometry. Prerequisite, High School Algebra II and score of 24 or above on Math ACT or 590 or above on Math SAT, or MATH 1023. Fall, Spring, Summer. (ACTS#: MATH 1305)

**MATH 2143. Business Calculus**  Exponential and logarithmic functions, mathematics of finance, limits, derivatives, optimization, and integrals, business calculus applications including marginal analysis, extrema and concavity of functions. Will not satisfy requirements for mathematics degrees. Prerequisite, MATH 1023 or MATH 1054 or a Math ACT score of 26 or a Math SAT score of 650. Fall, Spring, Summer

**MATH 2183. Discrete Structures** Sets and functions, partially ordered sets, trees and graphs, algorithms, symbolic logic, Boolean algebra, combinatorics, and probability modeling. Prerequisites, High School Algebra II and score of 22 or above on Math ACT or 560 or above on SAT, or MATH 1054. Fall, Spring.

**MATH 2194. Survey of Calculus**  Survey of the basic concepts of calculus, including limits, derivatives, exponential and logarithmic functions, and integrals. Credit will not be given for both MATH 2194 and MATH 2204. Prerequisites, MATH 1023 or MATH 1054 or a Math ACT score of 26 or a Math SAT score of 650. Fall, Spring. (ACTS#: MATH 2203)

**MATH 2204. Calculus** I The calculus of functions of one real variable. Limits, derivatives, implicit differentiation, applications of the derivative (including L’Hospital’s Rule), definite integrals, indefinite integrals, Fundamental Theorem of Calculus, substitution technique for integrals. Prerequisites, High School Trigonometry and score of 26 or above on math ACT or 650 or above on SAT, or MATH 1023 and MATH 1033 or MATH 1054. Fall, Spring, Summer. (ACTS#: MATH 2405)

2022-2023 Bulletin (After)

**MATH 1023. College Algebra** Equations and inequalities, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, systems of equations and inequalities, and miscellaneous topics. No credit given if taken following MATH 1054. Prerequisite, High School Algebra II and score of 21 or above on ACT Math or 560 or above on SAT Mathematics or 47 or above on COMPASS Algebra or a grade of C or better in MATH 0013 or completion of 9 modules in MATH 0173 and MATH 022V. Fall, Spring, Summer. (ACTS#: MATH 1103)

**MATH 1033. Plane Trigonometry**  Right triangles and similar triangles, trigonometric ratios, degrees, and radians, trigonometric functions, circular functions, trigonometric identities, inverse trigonometric functions, trigonometric equations, Law of Sines, Law of Cosines, vectors, polar coordinates, and complex numbers. No credit given if taken following MATH 1054. Prerequisite, High School Algebra II and score of 21 or above on Math ACT or 560 or above on Math SAT, or a grade of C or better in MATH 0013 or completion of 9 modules in MATH 0173 or MATH 022V or Corequisite, MATH 1023. Fall, Spring, Summer. (ACTS#: MATH 1203)

**MATH 1043. Quantitative Reasoning** Quantitative reasoning as the approach to understanding relationships using mathematical and algebraic methodologies. Contemporary topics will be used to identify, analyze, generalize, and communicate quantitative relationships. Prerequisite, High School Algebra II and score of 19 or above on ACT Math or 500 or above on SAT Mathematics or 36 or above on COMPASS Algebra or 42 or above on ASSET Algebra or a grade of C or better in MATH 0013 or completion of 12 modules in MATH 0173 and MATH 022V. Fall, Spring, Summer. (ACTS#: MATH 1003)

**MATH 1054. Precalculus Mathematics**  Selected topics from algebra, trigonometry, and analytic geometry. Prerequisite, High School Algebra II and score of 24 or above on Math ACT or 610 or above on Math SAT, or MATH 1023. Fall, Spring, Summer. (ACTS#: MATH 1305)

**MATH 2143. Business Calculus**  Exponential and logarithmic functions, mathematics of finance, limits, derivatives, optimization, and integrals, business calculus applications including marginal analysis, extrema and concavity of functions. Will not satisfy requirements for mathematics degrees. Prerequisite, MATH 1023 or MATH 1054 or a Math ACT score of 26 or a Math SAT score of 670. Fall, Spring, Summer

**MATH 2183. Discrete Structures** Sets and functions, partially ordered sets, trees and graphs, algorithms, symbolic logic, Boolean algebra, combinatorics, and probability modeling. Prerequisites, High School Algebra II and score of 22 or above on Math ACT or 580 or above on SAT, or MATH 1054. Fall, Spring.

**MATH 2194. Survey of Calculus**  Survey of the basic concepts of calculus, including limits, derivatives, exponential and logarithmic functions, and integrals. Credit will not be given for both MATH 2194 and MATH 2204. Prerequisites, MATH 1023 or MATH 1054 or a Math ACT score of 26 or a Math SAT score of 670. Fall, Spring. (ACTS#: MATH 2203)

**MATH 2204. Calculus** I The calculus of functions of one real variable. Limits, derivatives, implicit differentiation, applications of the derivative (including L’Hospital’s Rule), definite integrals, indefinite integrals, Fundamental Theorem of Calculus, substitution technique for integrals. Prerequisites, High School Trigonometry and score of 26 or above on math ACT or 670 or above on Math SAT, or MATH 1023 and MATH 1033 or MATH 1054. Fall, Spring, Summer. (ACTS#: MATH 2405)