

ADD, CHANGE OR DELETE UNIT, PROGRAM REQUIREMENTS, OR ACADEMIC POLICIES

Complete this form consistent with the instructions in Academic Policy 1622.20. Use the form to add, change, or delete a program or unit or to change program policies. Proposed additions and changes must be consistent with Academic Policies 1100.40 and 1621.10 and any other policies which apply.

SECTION I: Approvals

Department / Program Chair _____	Date Submitted _____	Graduate Council Chair _____	Date _____
College Dean _____	Date _____	Faculty Senate Chair _____	Date _____
Honors College Dean _____	Date _____	Provost _____	Date _____
Core Curriculum Committee _____	Date _____	Board of Trustees Approval/Notification Date _____	
University Course and Programs Committee _____	Date _____	Arkansas Higher Education Coordinating Board Approval/Notification Date _____	

SECTION II: Profile Data - Required Information and Name Change Information

Academic Unit: Major/Field of Study Minor Other Unit _____ Policy

Level: Undergraduate Graduate Law Effective Catalog Year _____

Program changes are effective with the next available catalog. See Academic Policy Series 1622.20

Current Name **BA, Mathematics**

College, School, Division **ARSC**

Department Code **MASC**

Current Code (6 digit Alpha) **MATHBA**

Proposed Code (6 digit Alpha) _____
Prior approval from the Office of the Registrar is required.

Interdisciplinary Program

CIP Code **27.0101**
Prior assignment from Office of Institutional Research is required.

Proposed Name _____
When a program name is changed, enrollment of current students reflects the new name.

SECTION III: Add a New Program/Unit

For new program proposals, complete Sections II and VII and use as a cover sheet for a full program proposal as described in 'Criteria and Procedures for Preparing Proposals for New Programs in Arkansas.' ADHE
http://www.adhe.edu/divisions/academicaffairs/Pages/aa_academicproposals.aspx

Program proposal uses courses offered by another academic college, and that college dean's office has been notified. The signature of the dean of that academic college is required here: _____

SECTION IV: Eliminate an Existing Program/Unit

Code/Name _____ Effective Catalog Year _____

No new students admitted to program after Term: ____ Year: _____

Allow students in program to complete under this program until Term: ____ Year: _____

SECTION V: Proposed Changes to an Existing Program or Program Policies

Insert here a statement of the exact changes to be made:

The department specifies that PHIL 2203, Logic, cannot count towards the Philosophy requirement.

The department's intent is that students for the MATHBA need to take a total of 6 hours of humanities, 3 from PHIL and 3 from (usually WLIT) any other state/university core-approved HUMN course (other than PHYS or other than the intermediate II world language course which is a separate requirement already). We're changing the language to reflect that.

The department proposes to require Math 3513 in place of 2603, and to allow any Math or Stat courses at the 3000-level or higher count towards the degree.

Finally course changes are in the approval chain for 4932 and 3404: 4932 is to be converted into 4933 and 3404 to become 2584. Though 2584 is not at the 3000 level, we wish it to still be counted towards the BA degree.

Check if either of these boxes apply and provide the necessary signature:

- Program change proposal adds courses offered by another academic college, and that college dean's office has been notified. The signature of the dean of that academic college is required here: _____
- Program change proposal deletes courses offered by another academic college, and that college dean's office has been notified. The signature of the dean of that academic college is required here: _____

Check all the boxes that apply and complete the required sections of the form:

- Change of Name and Code (Complete only sections I, II, V and VII.)
- Change Course Requirements: (Complete all sections of the form except "Proposed Name" in II, section III, and section IV.)
- Change Delivery Site/Method (Complete all sections of the form except "Proposed Name" in II, section III, and section IV.)
- Change Total Hours (Complete all sections of the form except "Proposed Name" in II, section III, and section IV.)
- Change in Program Policies

SECTION VI: Justification

Justify this change and state its likely effect on any other degree program (including those outside the school or college). Identify any program or program components (other than courses) to be eliminated if this program is implemented. (Program and course change forms must also be submitted for such related changes.)

The change to the wording of the Fine Arts/Humanities/Philosophy requirement is an attempt to clarify the requirement. Math 2603 is largely redundant, with Math 2803 playing a more effective role in introducing students to proof and abstraction. At the same time, we are attempting to streamline progress into more advanced coursework. Finally, Math 3513 ensures that all math graduates will have seen the formal foundations of Calculus. The other changes are needed to reflect changes in catalog numbers.

SECTION VII: Catalog Text and Format

In the box below, insert the current catalog text which is to be changed, with changes highlighted with the color yellow. Include all proposed changes identified in Section V. Only changes explicitly stated in Section V will be considered for approval by the University Course and Programs Committee, the Graduate Council and the Faculty Senate. If you are proposing a new program, give proposed text with all of the elements listed below. If you are proposing modified text, include these elements as appropriate.

Include the following elements, in order, in the catalog text for proposed undergraduate program(s) or program changes:

- State complete major/program name
- Briefly define or describe the major/program or discipline.
- Identify typical career goals or paths for graduates. (Optional)
- State admission requirements (if any) for entry or entry into upper/advanced level of major/program.
- Identify location in catalog of university, college/school, and department/program requirements which the student must meet in addition to hours in the major, but do not restate these requirements.
- State course requirements in the major and any allied areas, giving number of hours and specific courses; specify electives or elective areas and give numbers of hours and courses in elective pools or categories; identify any other course requirements.
- State any other requirements (required GPA, internship, exit exam, project, thesis, etc.).
- Identify name and requirements for each concentration (if any).
- Specify whether a minor or other program component is allowed or required and provide details.
- State eight-semester plan requirements

For minors, state requirements in terms of hours, required courses, electives, etc.

For graduate program/units, include elements (as needed) parallel to those listed for undergraduate programs above.

For Law School program/units, prepare text consistent with current catalog style.

For centers, prepare text consistent with current catalog style.

Requirements for a Major in Mathematics, B.A. Degree: Students must complete 124 degree credit hours to include the minimum University/state core requirements (see page 39), the Fulbright College of Arts and Sciences Graduation Requirements (see page 126 under Fulbright College Academic Regulations and Degree Completion Program Policy), and the following liberal arts and major course

requirements. Bolded courses from the list below may be applied to portions of the University/state minimum core requirements.

A minimum of 63 hours:

12 – Twelve total hours from the following science courses, at least 4 hours from each of the following two areas:

Biological Sciences – **ANTH 1013/1011L, BIOL 1543/1541L, BIOL 1603/1601L, BIOL 1613/1611L, BIOL 2013/2011L**

Physical Sciences – **ASTR 2003/2001L, CHEM 1103/1101L, CHEM 1123/1121L, GEOL 1113/1111L, GEOL 1133/1131L, PHYS 2054, PHYS 2074**

3 – Philosophy course to be selected from: **PHIL 2003, PHIL 2103,**
or **PHIL 3103**

3 –

3-6 – Any world language at the Intermediate I 2003 level. (This is usually accomplished through completion of a sequence of three language courses: 1013, 2003 and 2013. NOTE: 1003 usually will not count towards the 124 hours required for degree credit; see the Fulbright College Admission Requirements on page 125 for further details.)

3 – One additional University/state core humanities course (not to include PHIL and not to include world language at the Intermediate I 2003 level)

3-4 – Computer Science course CSCE 1013 or CSCE 2004

Major Course Requirements: MATH 2574 (*MATH 2554* and *MATH 2564* are prerequisites), MATH 2701, MATH 2803, MATH 3093, MATH 3113, MATH 3513, and MATH 4933; and 12 semester hours of courses in mathematics selected from MATH 2584 or MATH and STAT courses numbered at the 3000-level or higher; and the completion of a senior writing project under the direction of a faculty member; this is typically carried out in MATH 4933. An honors senior thesis will satisfy this requirement. It is recommended that MATH 2701 and MATH 2803 be taken as early as possible in the program.

Mathematics B.A.

Eight-Semester Degree Program

Students wishing to follow the eight-semester degree plan should see page 40 in the Academic Regulations chapter for university requirements of the program. Core requirement hours may vary by individual, based on placement and previous credit granted. Once all core requirements are met, students may substitute a three-hour (or more) general elective in place of a core area.

Fall Semester Year 1

3 ENGL 1013 Composition I

4 †MATH 2554 Calculus I

3 Fine arts, philosophy or world literature requirement

3 Social science university/state core requirement

3 1013 Elementary II world language course

16 Total Hours

Spring Semester Year 1

3 ENGL 1023 Composition II

4 †MATH 2564 Calculus II

3 †MATH 2803 Introduction to Mathematical Proof

1 †MATH 2701 Survey of Higher Mathematics

3 2003 Intermediate I world language course

16 Total Hours

Fall Semester Year 2

4 †MATH 2574 Calculus III

3 ††MATH 3093 Abstract Linear Algebra

3 Philosophy, fine arts or non-PHIL humanities requirement (as needed)

3 U.S. History university/state core requirement

3 General Electives (as desired)

16 Total Hours

Spring Semester Year 2

3-4 CSCE 1013 Explorations in Computing or CSCE 2004 Programming Foundations (recommended)

3 ††MATH/STAT Elective above 3000 level

3 Social science university/state core requirement
 4 Science university/state core lecture with corequisite lab requirement
 3 Non-PHIL humanities, fine arts, or PHIL requirement (as needed)

16-17 Total Hours

Fall Semester Year 3

3 ‡MATH 3113 Introduction to Abstract Algebra I
 3 Social science university/state core requirement
 4 Science university/state core lecture with corequisite lab requirement
 6 General Electives

16 Total Hours

Spring Semester Year 3

3 ‡MATH 3513 Elementary Analysis
 3 ‡MATH/STAT Elective above 3000 Level
 4 Biological or physical science lecture w/ corequisite lab as needed
 6 General Electives

16 Total Hours

Fall Semester Year 4

3 ‡MATH/STAT Elective above 3000 level
 3 General Electives
 9 †3000-4000 Level Electives

15 Total Hours

Spring Semester Year 4

3 ‡MATH 4933 Math Major Seminar
 3 ‡MATH/STAT Elective above 3000 Level
 8-9 General Electives as needed
 14-15 Semester Hours

124 Total Hours

† Meets 40-hour advanced credit hour requirement. See College Academic Regulations on page 127 of this chapter

‡ Meets 24-hour rule (24 hours of 3000-4000 level courses in Fulbright College), in addition to meeting the 40-hour rule. See College Academic Regulations on page 127 of this chapter.

SECTION VIII: Action Recorded by Registrar's Office

PROGRAM INVENTORY/DARS

PGRM _____ SUBJ _____ CIP _____ CRTS _____

DGRE _____ PGCT _____ OFFC&CRTY VALID _____

REPORTING CODES

PROG. DEF. _____ REQ. DEF. _____
 Initials _____ Date _____

Distribution

Notification to:

- (1) College
- (2) Department
- (3) Admissions
- (4) Institutional Research
- (5) Continuing Education
- (6) Graduate School
- (7) Treasurer
- (8) Undergraduate Program Committee