| lame: | ID Number: | _ Date: _ | Anticipated Graduation Semester: |
|-----------------|--|-----------|---|
| | MATHBS-M | ATH3 De | egree Snapshot |
| University Per | rspectives (0-1 hr) | | MATH 31103, Introduction to Abstract Algebra I |
| UNIV 1 | 0051, University Perspectives or exemption | | MATH 45103, Advanced Calculus 1 |
| | | | MATH 49303, Mathematics Major Seminar |
| | <u>glish Composition</u> (0-6 hrs) | | CSCE 20004, Programming Foundations I |
| | 0103, Composition 1 or exemption | | |
| ENGL 1 | 0203, Composition 2 or exemption | | Statistics Concentration (19 hrs) |
| | | | STAT 30133, Introduction to Probability |
| | History or Government (3 hrs) | | STAT 31133, Introduction to Mathematical Statistics |
| US HIS | T/PLSC | | STAT 30043, Statistical Methods |
| Chata Cara Ma | | | STAT 30041, Statistics Methods Laboratory OR STAT |
| | athematics (0 hrs) | | 41031, Introduction to R |
| wet with majo | or requirements. | | STAT 4033 Nonparametric Statistical Methods |
| Natural Science | ces w/ labs for MATHBS (8 hrs) | | STAT or MATH 30000+ (or CSCE 41303*) |
| | e w/ lab | | STAT or MATH 30000+ |
| | e w/ lab | | |
| 00101100 | | | General Electives (23-40 hrs) |
| State Core So | <u>cial Sciences</u> (9 hrs) | | How you use these hours will depend on your educational and career goals. |
| | Science | | Early in your degree you might use this section to jot down ideas for how to plan. As you get closer to graduation, you might use this sectior |
| | Science | | to track which classes you've taken outside the above requirements. |
| | Science | | |
| State Core Fin | n <u>e Arts</u> (3 hrs) | | |
| Fine Ar | t | | |
| | i <u>manities</u> (3 hrs) | | |
| Human | ities | | |
| MATHBS Core | | | |
| MATH : | 11003, College Algebra (or <u>placement</u> in to | | |
| higher r | math) | | |
| MATH : | 13004, Pre-Calculus OR MATH 12003, Plane | | |
| Trigono | metry (or <u>placement</u> in to higher math) | | |
| MATH : | 24004, Calculus I | | |
| MATH : | 25004, Calculus II | | |
| MATH : | 26004, Calculus III | | |
| MATH : | 25804, Elementary Differential Equations | | |
| MATH : | 28003/28001, Transition to Advanced | | |
| Mathen | natics | | |
| | | | |

_____ MATH 30903, Abstract Linear Algebra

Advising Notes

Graduation Plan

Use the following additional resources, in addition to this major map, to complete your graduation plan (<u>Catalog</u>, and your <u>Degree Audit</u> in UAconnect). Many students have more than one major, minor, or pre-professional goal that has additional required classes. This tool allows you to combine all your educational goals in to one plan.

| High School credit | List all Advanced | Placement, International Baccalaureat | e, Dual or Concurrent credit | |
|--------------------------|-------------------|---------------------------------------|------------------------------|--|
| Year | Fall | Spring | Summer | Total |
| Year 1 | | | | Total 1 st year credit hours (aim for 30): |
| Year 2 | | | | Total 2 nd year credit hours (aim for 60): |
| | | | | Total 3 rd year |
| Year 3 | | | | credit hours (aim for 90): |
| Year 4 | | | | Total 4 th year credit hours (Must be at least 120): |
| | | | | |

 Graduation Checklist (does your plan include the following):

 2.0 minimum overall UofA GPA (Courses taken at other colleges or universities are not factored into this GPA)

 All state minimum core requirements

 All Major(s)/Minor(s) requirements

 Writing requirement complete

 At least 50% of each major/minor taken from UofA

 24 hours of 30000+ classes exclusively from Fulbright College of Arts and Sciences classes

 30 hours of 30000+ classes exclusively from the University of Arkansas. This can include courses taken for the 24-hour rule.

 40 hours of upper-level classes. (30000+ or 20000+ with a pre-requisite. Can include transfer credit.) This can include courses taken for the 24-hour and 30-hour rules.

 120 total eligible credit hours (see below for a list of ineligible classes)

Program Information:

The Applied Concentration is a program for the student who wishes to prepare for either applied work in mathematics or graduate work in some field other than mathematics or statistics.

<u>GPA (Grade Point Average)</u>: Every student must have at least a 2.00 cumulative grade point average to be eligible to graduate from the University of Arkansas. **A 2.00 cumulative grade-point average on all work completed in the department of mathematical sciences will be required for graduation with a B.A. or B.S. degree.**

Please visit <u>https://catalog.uark.edu/undergraduatecatalog</u> for an extensive list of core, major, graduation, and prerequisite requirements. To read more about individual classes, visit the <u>courses of instruction</u> page for course descriptions.

Degree Requirement Breakdown by Category

The following information is designed to help you navigate your experience in your degree and answer common questions that may come up for each requirement.

| Category | Degree Requirements | Curriculum Notes |
|--------------------------|--|--|
| UNIVERSITY | | Or equivalent from another University of Arkansas college. (AFLS |
| PERSPECTIVES | • UNIV 10051, University Perspectives (or UNIV 100H1) | 102H3, ARSC 12001, GNEG 11101, GNEG 111H1, HIST 1003(H), |
| | | HIST 10001, HIST 100H1, PLSC 10003, PLSC 100H3, BUSI/WCOB |
| 0-1 hr | | 11101, WCOB/BUSI 111H1) |
| | | |
| | | Note: students who transfer to the University of Arkansas with at |
| | | least 24 credit hours will have this requirement waived. |
| STATE CORE | | See <u>Catalog</u> for information about placement and/or exemption. |
| COMPOSITION | • ENGL 10103, Composition 1 or SAT/ACT exemption (or | |
| 0 C hus | ENGL 101H3) | |
| 0-6 hrs | ENGL 10203, Composition 2 or SAT/ACT exemption (or | |
| | ENGL 102H3) | |
| STATE CORE US | Choose 1: * | *Some courses may appear as options in multiple areas of the |
| HISTORY or GOVERNMENT | HIST 20003, History of the American People to 1877 HIST 20103, History of the American People 1877 to | State Core. You can only count each course 1 time in the State Core |
| OOVERNMENT | Present | and will need unique courses in each of the content areas below. |
| 3 hrs | PLSC 20003, American National Government (or PLSC | |
| | 200H3) | |
| STATE CORE | Met with courses in the major | Based on ACT/SAT or other math placement scores, students may |
| MATHEMATICS | | need to enroll in additional remediation related courses. See |
| 2 h | | catalog or math placement website for additional information. |
| 3 hrs | | |
| NATURAL | Choose 1 sequence of 2 classes from the same department: | Some of these classes will have pre-requisites. |
| SCIENCES FOR | | |
| MATHBS | Biology: | |
| 8 hrs | BIOL 10103/10101, Principles of Biology | *If students take BIOL 2003/2001, they will also have to take an |
| 01113 | Then choose 1 from below: | additional natural science class from the university core list. |
| | BIOL 10503/10501, Principles of Zoology | |
| | BIOL 10303/10301, Plant Biology | |
| | BIOL 2003/2001, General Microbiology* | |
| | OR | |
| | Chemistry: | |
| | CHEM 14103/14101; University Chemistry I | |
| | CHEM 14203/14201, University Chemistry II | |
| | | |
| | OR | |
| | Geosciences: | |
| | GEOL 11103/11101, Physical Geology | |
| | GEOL 11203/11201, Earth Science | |
| | OR | |
| | Physics: | |
| | | |
| | PHYS 10304, University Physics I PHYS 10404, University Physics II | |
| STATE CORE | Choose 3: * | Students must take classes from at least two departments in the |
| SOCIAL SCIENCES | AGEC 11003, Principles of Agriculture Microeconomics | Social Sciences category. |
| | (or AGEC 110H3) | |
| 9 hrs | , , | |

| | KATION (MATHDS-MATHS) 2020-21 | |
|-------------------------|---|--|
| | AGEC 21003, Principles of Agriculture Macroeconomics | *Some courses may appear as options in multiple areas of the |
| | (or AGEC 210H3) | State Core. You can only count each course 1 time in the State Core |
| | ANTH 10203, Intro to Cultural Anthropology (or ANTH | and will need unique courses in each of the content areas below. |
| | 102H3) | |
| | COMM 10203, Communication in a Diverse World (or | |
| | ANTH 102H3) | |
| | ECON 21003, Principles of Macroeconomics (or ECON | |
| | 210H3) | |
| | ECON 22003, Principles of Microeconomics (or ECON | |
| | 220H3) | |
| | ECON 21403, Basic Economics: Theory and Practice (or | |
| | ECON 214H3) | |
| | EDST 20003, Introduction to Educational Studies | |
| | GEOG 11103, Human Geography (or GEOG 111H3) | |
| | GEOG 21003, World Regional Geography (or GEOG | |
| | 210H3) | |
| | HDFS 14003, Life Span Development (HDFS 140H3) | |
| | HDFS 24103, Family Relations (or HDFS 241H3) | |
| | HDFS 26003, Rural Families & Communities (HDFS | |
| | 260H3) | |
| | HIST 11193, Institutions and Ideas of World Civilizations I | |
| | (or HIST 111H3) | |
| | HIST 11293, Institutions and Ideas of World Civilizations II | |
| | (or HIST 112H3) | |
| | HIST 20003, History of the American People to 1877 | |
| | HIST 20103, History of the American People 1877 to Procent | |
| | Present | |
| | HIST 20903, Animals in World History HUMN 111H4, Honors Roots of Culture to 500 C.E. | |
| | (Honors only) | |
| | HUMN 211H4, Honors Birth of Modern Culture, 1600- | |
| | 1900 (honors only) | |
| | INST/PLSC 28103, Intro to International Relations & | |
| | Global Studies (or INST/PLSC 281H3) | |
| | JOUR 10203, Media and Society | |
| | PLSC 20003, American National Government (or PLSC | |
| | 200H3) | |
| | PLSC 20103, Intro to Comparative Politics | |
| | PLSC 21003, State and Local Government | |
| | PSYC 20003, General Psychology (or PSYC 200H3) | |
| | RESM 28503, Leisure and Society (or RESM 285H3) | |
| | SOCI 10103, General Sociology (or SOCI 201H3) | |
| | SOCI 20103, Social Problems | |
| | STEM 20003, The Art of STEM Communication | *Come courses may appear as entions is multiple even of the |
| STATE CORE FINE ARTS | Choose 1: * ARCH 10003, Architecture Lecture (or ARCH 100H3) | *Some courses may appear as options in multiple areas of the State Core, You can only count each course 1 time in the State |
| | ARHS 10003, Art Lecture (or ARHS 100H3) | State Core. You can only count each course 1 time in the State Core and will need unique courses in each of the content |
| 3 hrs | COMM 10003, Film Lecture (or COMM 100H3) | areas below. |
| | DANC 10003, Movement and Dance | |
| | ENGL 20103, Creative Writing 1 | |
| | HUMN 211H4, Honors Birth of Modern Culture 1600- | |
| | 1900 (honors only) | |
| | | |

| CONCENT | IRATION (MATHES-MATH3) 2020-21 | THROUGH 2024-25 CATALOG TEARS |
|------------|--|--|
| | LARC 10003, The American Landscape (or LARC 100H3) | |
| | MLIT 10003, Experiencing Music (or MLIT 100H3) | |
| | MLIT 10103, Music and Society (music majors only. Or | |
| | MLIT 101H3) | |
| | MLIT 13303, Popular Music | |
| | • THTR 10003, Theatre Appreciation (or THTR 100H3) | |
| | THTR 10103, Musical Theatre Appreciation (or THTR | |
| | 101H3) | |
| | THTR 16803, Acting I | |
| | THTR 18803, Acting 1 for Theatre majors | |
| STATE CORE | Choose 1: * | *Some courses may appear as options in multiple areas of the |
| HUMANITIES | AAST 20203, The African American Experience | State Core. You can only count each course 1 time in the State |
| 3 hrs | ANTH 10303, Introduction to Archeology | Core and will need unique courses in each of the content |
| 51115 | ARCH 10103, Diversity and Design (or ARCH 101H3) | areas below. |
| | CLST 10003, Introduction to Classical Studies: Greece (or | |
| | CLST 100H3) | |
| | CLST 10103, Introduction to Classical Studies: Rome (or | |
| | CLST 101H3) | |
| | COMM 12303, Media, Community and Citizenship (or | |
| | COMM 123H3) | |
| | DANC 10003, Dance Appreciation | |
| | DASC 21303, Data Privacy & Ethics | |
| | • ENGL 11103, World Literature: Beginnings to 1650 CE (or | |
| | ENGL 111H3) | |
| | • ENGL 11203, World Literature: 1650 CE to Present (or | |
| | ENGL 112H3) | |
| | • ENGL 12103, Introduction to Literature (or ENGL 121H3) | |
| | ENGL 20103, Creative Writing I | |
| | GNST 20003, Introduction to Gender Studies (or GNST | |
| | 200H3) | |
| | HIST 11193, Institutions and Ideas of World Civilizations I | |
| | (or HIST 111H3) | |
| | HIST 11293, Institutions and Ideas of World Civilizations II | |
| | (or HIST 112H3) | |
| | HIST 20003, History of the American People to 1877 | |
| | HIST 20103, History of the American People 1877 to | |
| | Present | |
| | HUMN 112H4, Honors Equilibrium of Cultures 500-1600 | |
| | (Honors only) | |
| | HUMN 22103, Introduction to World Religions | |
| | LALS 20103, Introduction to Latin American and Latino | |
| | Studies | |
| | MRST 20103, Introduction to Medieval and Renaissance | |
| | Studies | |
| | • MUSY 20003, Music in World Cultures (or MUSY 200H3) | |
| | PHIL 20003, Introduction to Philosophy (or PHIL 200H3) | |
| | PHIL 21003, Introduction to Ethics | |
| | • PHIL 22003, Logic | |
| | PHIL 23003, Human Nature and the Meaning of Life | |
| | PHIL 31003, Ethics and the Professions | |
| | • THTR 10003, Theatre Appreciation (or THTR 100H3) | |
| | | |

| | · · | |
|------------------|--|--|
| | THTR 10103, Musical Theatre Appreciation (or THTR 101112) | |
| | 101H3)Any Intermediate level foreign language numbered at the | |
| | 20000 level | |
| MATHBS CORE | • MATH 11003, College Algebra (may not be required | The students first math course also meets university core |
| | based on math placement) | requirements. |
| 36-46 hrs | MATH 13004, Pre-Calculus OR MATH 12003, Plane | |
| | Trigonometry (may not be required based on <u>math</u> | Students must earn a C or higher to use a class as a pre-requisite. |
| | placement) | |
| | MATH 24004, Calculus I (pre-req: MATH 13004, 12003, or mathedesense). | See <u>catalog</u> for additional pre-requisite information for individual |
| | math placement)* | classes. |
| | MATH 25004, Calculus II (pre-req: MATH 24004) MATH 26004, Calculus III (pre-req MATH 25004) | |
| | MATH 20004, Calculus in (plened MATH 20004) MATH 25804, Elementary Differential Equations (pre-req: | *MATH 24005, Calculus I with review, can also be taken here. |
| | MATH 25004) | |
| | MATH 28003/28001, Transition to Advanced | **MATH 28003 should be taken as early as possible. While not |
| | Mathematics (co- OR pre-reg: MATH 25004)** | listed in the major as a requirement, MATH 28001 is a co-requisite |
| | • MATH 30903, Abstract Linear Algebra (pre-req: MATH | class that needs to be taken along with MATH 28003. |
| | 2803. co- or pre-req: MATH 25004)*** | |
| | MATH 31103, Introduction to Abstract Algebra I (pre-req: | **Students may not receive credit for both MATH 30903 and |
| | MATH 28003 and either MATH 30903 or 30803) | MATH 30803 |
| | MATH 45103, Advanced Calculus 1 (pre-req: MATH | ***Students may not receive credit for both MATH 35103 and |
| | 26004, MATH 28003, and either MATH 30903 or | 45103 in the major. |
| | 30803)**** | , |
| | MATH 49303, Mathematics Major Seminar (Spring only, pre-req: senior standing and mathematics major) | |
| | CSCE 20004, Programming Foundations I (pre-req: MATH | |
| | 24004) | |
| STATISTICS | • STAT 30133, Introduction to Probability (pre-req: MATH | *pre-2022 catalog allows MATH 5103 in lieu of STAT 3013 |
| CONCENTRATION | 25004)* | |
| 19 hrs | STAT 31133, Introduction to Mathematical Statistics (pre- | |
| | req: STAT 30133) | ** Students who take CSCE 41303 and would like to count it for the |
| | STAT 30043, Statistical Methods (pre-req: MATH 24004. Listed in older Catalogs at STAT 4003) | 24 hour rule may request this using the <u>General College Petition</u> . |
| | STAT 30041, Statistics Methods Laboratory (co- pre-req: | |
| | STAT 30043 encouraged but not required) OR STAT | Honors MATH requirements can count in math electives category. |
| | 41031 , Introduction to R | See below for more details. |
| | • STAT 40333 Nonparametric Statistical Methods (pre-req: | |
| | STAT 28233 or STAT 30043) | MATH or STAT 3999T or 4999T courses may count in the |
| | 6 hrs STAT or MATH 30000+ (or CSCE 41303**) | MATH/STAT 30000+ requirement as students still meet the 50% rule. Not all 999T classes pull into the degree audit automatically, |
| | | so students may need to request classes be moved into the minor |
| | | by their academic advisor. |
| UPPER-LEVEL | Completion of 8 additional hours at the 30000 -level or | *This requirement was removed from the 2024-25 catalog. |
| | higher not in Mathematics or Statistics chosen with | The department does not enforce this requirement in any |
| REQUIREMENT | department approval.* | catalog years. Students still need 120 total hours in their |
| 0 hrs * | | degree but may take any general electives they would like in |
| | | lieu of this requirement. For this reason, this requirement |
| | | is not listed in the degree snapshot on page 1. |
| GENERAL | Hours will vary depending on math placement and whether a | Some general electives may need to be upper level to meet |
| ELECTIVES | student is exempt from ENGL 10103 and 10203. | college and university residency requirements. See Graduation Checklist on page 3 for more information. |
| 23-40 hrs | | cheekist on page 5 for more information. |
| | | 1 |

| WRITING | The college writing requirement may be satisfied in one of two | |
|-------------|--|--|
| REQUIREMENT | ways: | |
| | Upon completion of MATH 49303 | |
| | Successful honors thesis defense | |
| HONORS | Minimum Requirements for Honors: | Honors Thesis Timeline: Honors students should consistently |
| | Maintain cumulative grade point average of 3.5 in all coursework (as well as a 3.5 GPA in all CSCE and MATH/STAT courses) | check the <u>honors thesis timeline</u> to stay on track to complete your honors thesis. |
| | Students must receive a C or higher in all 2000 level MATH/STAT classes required for the degree. Complete a minimum of 12 hours of honors courses from the UofA (including at least 2 hrs of MATH 399HV taken at least one semester before graduation). Students on 2023-24 and older catalogs may count MATH 498V for this requirement. Complete and defend Honors Thesis | College Honors: Students who also are following the College Honors Plan need to complete additional requirements. Those can be found on the advising website (consult with an academic advisor if you have questions about your catalog year): <u>Academic Planning Resources</u> |
| | See <u>Catalog</u> for full description of requirements. | |