

# Summary of Proposed Curriculum Revisions

Ouachita Baptist University  
November 2018

The faculty **approved** these curriculum revisions at a faculty meeting on November 27, 2018.

[Business](#) | [Christian Studies](#) | [Education](#) | [Fine Arts](#) | [Humanities](#) | [Natural Sciences](#) | [Social Sciences](#)

The **short form** notation indicates informational level curriculum revisions submitted on the Curriculum and Academic Standards Committee's short form, which addresses course title changes, course time offering changes, and non-substantive changes to course content and/or descriptions. These short form revisions will NOT be brought to the faculty for discussion or a vote, unless questions are raised before the faculty meeting.

## Business

<b>ECON 1013</b> <b>ECON 2023</b>	<p><b>Proposed Changes</b></p> <ul style="list-style-type: none"><li>• Replace ECON 1013 Survey of Economics with ECON 2023 Principles of Microeconomics where ECON 1013 is listed as a prerequisite or a requirement.</li><li>• Among the Entrepreneurship Minor course requirements, change ECON 1013 Survey of Economics to any three-hour economics course.</li></ul> <p><b>Rationale</b></p> <p>Assessment data the school measures for the AACSB indicate that students tend to score poorly in microeconomics. While Survey of Economics includes an introduction to microeconomics, Principles of Microeconomics provides more depth, which students need to perform well in upper level marketing and finance courses. Replacing Survey of Economics with any three-hour economics course on the Entrepreneurship Minor course menu makes it consistent with the Business Administration minor.</p> <p><b>Catalog Entries</b></p> <p>BUAD 3103 Global Business Prerequisites: Replace ECON 1013 with ECON 2023.</p> <p>ECON 3013 Intermediate Microeconomics Prerequisites: Replace ECON 1013 with ECON 2023.</p> <p>ECON 3023 Intermediate Macroeconomics Prerequisites: Replace ECON 1013 with ECON 2023.</p> <p>ECON 3033 Managerial Economics Prerequisites: Replace ECON 1013 with ECON 2023.</p>
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	<p>ECON 4013 History of Economic Thought Prerequisites: Replace ECON 1013 with ECON 2023.</p> <p>FIN 3003 Financial Institutions Prerequisites: Replace ECON 1013 with ECON 2023.</p> <p>FIN 3013 Corporate Financial Management Prerequisites: Replace ECON 1013 with ECON 2023.</p> <p>MKTG 3033 Principles of Marketing Prerequisites: Replace ECON 1013 with ECON 2023.</p> <p>Accounting Typical 4-Year Program Spring (Year 1): Change ECON 1013 Survey of Economics <i>or</i> ECON 2023 Principles of Microeconomics to ECON 2023 Principles of Microeconomics.</p> <p>Business Administration Typical 4-Year Program Spring (Year 1): Change ECON 1013 Survey of Economics <i>or</i> ECON 2023 Principles of Microeconomics to ECON 2023 Principles of Microeconomics.</p> <p>Entrepreneurship Minor Change ECON 1013 Survey of Economics to ECON ___3 Any Economics course.</p> <p>Requirements for a Major in Environmental Studies: Replace ECON 1013 ECON 2023.</p> <p>Requirements for a Major in History (Social Studies Teaching Emphasis): Replace ECON 1013 with ECON 2023.</p> <p>Requirements for a Major in Music Industry Business Core: Replace ECON 1013 Survey of Economics with ECON 2023 Principles of Microeconomics.</p> <p>Music Industry 4-Year Program Sophomore (Spring): Replace ECON 1013 Survey of Economics with ECON 2023 Principles of Microeconomics.</p> <p>Secondary Education and 7-12 Licensure Subject Area Requirements Social Studies: Replace ECON 1013 with ECON 2023.</p>
<p><b>ECON 1013</b> <b>ECON 2023</b></p> <p><b>Short Form</b></p>	<p><b>Proposed Changes</b></p> <ul style="list-style-type: none"> <li>• Change the time offering of ECON 1013 Survey of Economics from Fall, Spring to On Demand.</li> <li>• Change the time offering of ECON 2023 Principles of Microeconomics from On Demand to Fall, Spring. Also change the course description to meet NASM standards for the BA in Music Industry.</li> </ul> <p><b>Rationale</b> These time changes correspond to the proposal to replace Survey of Economics with Principles of Microeconomics.</p>

The National Association of Schools of Music requires that the BA in Music Industry include an economics course which contains macroeconomic analysis. The Principles of Microeconomics course is expected to replace the Survey of Economics course in the Music Industry course menu. Therefore, it is necessary to include a component of macroeconomic analysis to comply with the NASM standard.

**Catalog Entries**

**ECON 1013 Survey of Economics**

The laws of economics, with applications of each, are presented. Both the micro and macro views are covered, with more emphasis placed on microeconomics. The laws of supply and demand, principle of parsimony, and marginal analysis are among the topics covered, with the emphasis on student learning rather than economic reference. On Demand.

**ECON 2023 Principles of Microeconomics**

The economics of the firm, price and output determination, the law of supply and demand, elasticity, utility, indifference analysis, cost of production, monopoly, and other forms of imperfect competition, marginal productivity and income distribution (wages, rent, interest, and profit), antitrust laws, labor practices, international trade and comparative advantage, and the balance of payment and exchange rates. General equilibrium application to macroeconomic analysis is covered. Fall, Spring.

## Christian Studies

### BA in International Missions

#### Proposed Change

Offer a Bachelor of Arts in International Missions only as a double major with the Bachelor of Science in Nursing.

#### Rationale

Quite often, students in Christian Studies and the Natural Sciences have expressed a desire to practice nursing overseas in a missions setting. This proposed double major would prepare them for such a vocation.

#### Catalog Entry

The BA in International Missions is offered only as a double major with the Bachelor of Science in Nursing. It is a 159-162 hour program that normally requires five years. The BA in International Missions requires the completion of the BSN degree, which includes the University CORE, prerequisites for the Nursing Program, Nursing classes, and successful completion of required exams, as listed under the BSN major in the Nursing Department (School of Natural Sciences), and the completion of the following Christian Studies classes:

International Missions Basic Requirements (25 hours):

CHST 1001 Freshman Seminar

THEO 1003 Spiritual Formation

BIST 2023 Exegesis

MSSN 2303 Introduction to Christian Missions

CHMN 3123 Communicating the Gospel

THEO 3323 History of Christianity

MSSN 3403 World Religions

BIST 3203 Life of Christ

THEO 4403 Christian Theology

MSSN 4313 Intercultural Communications (included in BSN requirement)

International Missions Additional Requirements Menu:

Two classes (6 hours) from the following menu: CHMN 3153 Discipleship, CHMN 3403

Evangelism and the Church, COMM 3033 Interpersonal Communications, THEO 3203

Apologetics, PHIL 1003 Introduction to Philosophy, PHIL 2163 Death and Dying, MSSN 3073

Christian Missions Study Trip, MSSN 3203 Missiology, MSSN 4323 Islam, MSSN 4303 Missional Strategy and Methods, MSSN 3343 History of Missions, MSSN 3433 MSSN Internship.

Special Note: Students are encouraged to participate in at least one international missions experience. More experience is desirable.

Suggested Course Sequence for the Double Major of BA in International Missions and BSN

YEAR 1: Semester 1

CORE 1043 Composition 1 (OBU-R)  
 THEO 1003 Spiritual Formation (OBU-R)  
 CORE 1113 Survey of the Bible  
 BIOL 1014 General Biology I (OBU-R)  
 CHST 1001 Freshman Seminar (OBU-R)  
 Chapel (OBU-R)  
 Total Hours: 15

YEAR 1: Semester 2

ENGL 3013 Technical & Professional Writing (OBU-R)  
 CHEM 1004 Fundamentals of Chemistry (OBU-R)  
 CORE 1123 Bible Interp (OBU-R)  
 MSSN 2303 Intro to Missions (OBU-R)  
 MATH 1003 College Algebra (OBU-R)  
 Chapel (OBU-R)  
 Total Hours: 15

YEAR 2: Semester 1

BIST 2023 Exegesis (OBU-R)  
 BIOL 2014 Anatomy & Physiology I (OBU-R)  
 MSSN 4313 Intercultural Communication (OBU-R)  
 PSYC 1013 General Psychology (OBU-R)  
 PSCI 2013 or HIST 2003 or HIST 2013 (Civic Engagement Menu) (OBU-R)  
 Chapel (OBU-R)  
 Total Hours: 15

YEAR 2: Semester 2

BIOL 2024 Anatomy & Physiology II (OBU-R)  
 IM Additional Requirements Menu course (OBU-R)  
 CORE 2213 World Literature (OBU-R)  
 CHMN 3123 Communicating the Gospel (OBU-R)  
 CORE 1023 Contemporary World  
 Chapel (OBU-R)  
 Total Hours: 16

YEAR 3: Summer

CORE 2213 Western Civilization in Global Context (OBU-O)  
 Total Hours: 3

YEAR 3: Semester 1

BIOL 2604 Applied Microbiology (OBU-R)  
 MSSN 3403 World Religions (OBU-R)

FINA 31x3 Artistic Engagement Menu (OBU-R)

NURS 3x3 Theories in Nursing (OBU-R)

THEO 3323 History of Christianity (OBU-R)

Chapel (OBU-R)

Total Hours: 16

YEAR 3: Semester 2

NURS 3x3 Issues and Ethics (OBU-R)

NURS 3x3 Informatics in Health Care (OBU-R)

THEO 4403 Christian Theology (OBU-R)

IM Additional Requirements Menu course (OBU-R)

BIST 3203 Life of Christ (OBU-R)

FINA 4011 Arts Engagement Series (OBU-R)

Chapel (OBU-R)

Total Hours: 16

YEAR 4: Semester 1

NSG 1010 Adult Nursing I (BHCLR)

NSG 1002 Pharmacology I (BHCLR)

NURS 3x3 Evidence-Based Nursing Research (OBU-O, first 8 weeks)

Total Hours: 15

YEAR 4: Semester 2

NSG 2107 Adult Nursing II (BHCLR)

NSG 2104 Mental Health (BHCLR)

NSG 2004 Women's Health (BHCLR)

NSG 2004 Pharmacology II (BHCLR)

NURS 3x1 Seminar: Applying Evidence-Based Nursing Research (OBU-O, first 8 weeks)

Total Hours: 17

YEAR 5: Semester 1

NSG 2207 Adult Nursing III (BHCLR)

NSG 2204 Children's Health (BHCLR)

NSG 2201 Pharmacology III (BHCLR)

NURS 4x3 Advanced Health Assessment (OBU-O, second 8 weeks)

Total Hours: 15

YEAR 5: Semester 2

NURS 4x3 Health Care Physiology (OBU-O, first 8 weeks)

NURS 4x4 Community Health (OBU-O, first 8 weeks)

NURS 4x4 Leadership and Management in BSN practice (OBU-O, second 8 weeks)

NURS 4x3 Transcultural Nursing (OBU-O, second 8 weeks)

NURS 4x1 Capstone (OBU-O, second 8 weeks)

Total Hours: 14

## Education

**ELED 2033**  
**ELED 3093**  
**ELED 4023**  
**ELED 4243**  
**MSED 4023**

### **Short Form**

#### **Proposed Changes**

Change the titles of the following literacy courses:

- ELED 2033 Literature for Elementary Classrooms to Reading: Children’s Literature
- ELED 3093 Language and Literature to Reading: Foundations
- ELED 4243 Diagnostic and Disciplinary Literacy to Reading: Diagnostics
- ELED 4023 Reading and Writing in the Content Area to Reading and Writing
- MSED 4023 Reading and Writing in the Content Area to Reading and Writing

#### **Rationale**

These title changes comply with Arkansas Act 1063 of 2017 (The Right to Read Act and Rules Governing Educator Licensure).

#### **Catalog Entries**

ELED 2033. Reading: Children’s Literature.

A survey of sources and types of reading materials available for children with an emphasis on reading comprehension and an introduction to the science of reading. Spring.

ELED 3093. Reading: Foundations.

A study of the science of reading including foundational skills, models and theories of reading, and instructional strategies utilized in a systematic and explicit manner for teaching reading. All elements of the science of teaching reading including phonics, phonemic awareness, fluency, vocabulary, and comprehension will be addressed. The field component of this class will provide the opportunity to apply the concepts and strategies studied. Pre-requisite: Admission to Teacher Education. Fall.

ELED 4243. Reading: Diagnostics.

A study of diagnosing reading readiness and implementing strategies for improving reading instruction based on individual student needs. Use of informal reading inventories, standardized testing, various screenings, and other sources will be presented and implemented to assist with diagnosing reading needs. Pre-requisite: Admission to Teacher Education. Fall.

ELED 4023. Reading and Writing.

A study of the integration of reading and writing, with emphasis on vocabulary strategies, process writing, and awareness of the science of reading. The field component of this class will provide the opportunity for students to apply a variety of reading and writing strategies. Pre-requisite: Admission to Teacher Education. Spring.

MSED 4023. Reading and Writing.

A study of the integration of reading and writing, with emphasis on vocabulary strategies, process writing, and awareness of the science of reading. The field component of this class will provide the opportunity for students to apply a variety of reading and writing strategies. Pre-requisite: Admission to Teacher Education. Spring.

	<p>Education Studies Minor</p> <p>Additional/optional classes:</p> <p>EDFN 2033 Professional Writing in Education</p> <p>ELED 2033 Reading: Children’s Literature</p>
<p><b>ELED 4733</b></p> <p><b>Short Form</b></p>	<p><b>Proposed Change</b></p> <p>Change the time offering of ELED 4733 Pedagogy in Elementary Mathematics from Fall to On Demand.</p> <p><b>Rationale</b></p> <p>A review of the ELED competencies that the state requires for elementary teachers indicated a need to redistribute current content as well as add some additional content to the existing courses. The best way to address this is to change ELED 4733 to an on-demand course and redesign the other nine hours of math courses ELED majors are required to take.</p> <p><b>Catalog Entry</b></p> <p>ELED 4733. Pedagogy in Elementary Mathematics.</p> <p>A course for K-6 teacher education candidates that includes theories, activities, curricula, and new developments in teaching mathematics to children at the elementary level. Open only to Elementary Education majors. Prerequisite: Math 3023. On Demand.</p>
<p><b>MSED Major Requirements</b></p>	<p><b>Proposed Changes</b></p> <ul style="list-style-type: none"> <li>• Drop HIST 3523 Arkansas History from the Middle School Education related requirements.</li> <li>• Drop the following courses from the Middle School Education teaching field requirements: <ul style="list-style-type: none"> <li>○ MSED 2033 Literature for Middle School Classrooms</li> <li>○ MSED 3093 Language and Literature</li> <li>○ MSED 4023 Reading and Writing in the Content Area</li> <li>○ MSED 4243 Diagnostic and Disciplinary Literacy</li> </ul> </li> </ul> <p><b>Rationale</b></p> <p>These changes comply with Arkansas’ revised Rules Governing Educator Licensure.</p> <p><b>Catalog Entries</b></p> <p>B. Related Requirements:</p> <p>PSYC 1013 General Psychology</p> <p>D. Teaching Field Requirements (depending on Concentration Areas):</p> <p>MSED 3023 Teaching of Social Studies (Fall)</p> <p>MSED 4043 Middle School Methods and Classroom Management (Spring)</p> <p>MSED 4023 Reading and Writing (Spring)</p> <p>MSED 4523 Practicum in Education Grades 4-8 (Fall)</p>

<p>KIN 2213 KIN 2223</p> <p><b>Short Form</b></p>	<p><b>Proposed Changes</b></p> <ul style="list-style-type: none"> <li>• Change the time offering of KIN 2213 Methods of Teaching and Coaching Individual Activities from Fall to Spring.</li> <li>• Change the time offering of KIN 2223 Methods of Teaching and Coaching Team Activities from Spring to Fall.</li> </ul> <p><b>Rationale</b></p> <p>Due to staffing issues and scheduling, these time offering changes will be the best fit for our available resources.</p> <p><b>Catalog Entries</b></p> <p>KIN 2213. Methods of Teaching and Coaching Individual Activities. This course is designed to assist students in becoming skilled and knowledgeable in teaching and coaching selected individual activities. Emphasis will be placed on developing and evaluating the student's skills and knowledge. Spring.</p> <p>KIN 2223. Methods of Teaching and Coaching Team Activities. This course is designed to assist in students in becoming skilled and knowledgeable in selected team activities. Emphasis will be placed on developing and evaluating the student's skills and knowledge. Fall.</p>
<p>KIN 3002</p> <p><b>Short Form</b></p>	<p><b>Proposed Change</b></p> <p>Change the time offering of KIN 3002 Health and Fitness for Children from Fall, Spring to Spring.</p> <p><b>Rationale</b></p> <p>Due to staffing issues and scheduling, this time offering change will be the best fit for our available resources.</p> <p><b>Catalog Entry</b></p> <p>KIN 3002. Health and Fitness for Children. A study of the characteristics of the elementary school child with implications for physical education: program content, teaching techniques, and materials. Spring.</p>

## Fine Arts

<p><b>THEA 2110</b> <b>THEA 4110</b></p>	<p><b>Proposed Change</b> Add THEA 2110 Sophomore Recital Preparation and THEA 4110 Senior Recital Preparation to the requirements for the Bachelor of Music in Musical Theatre degree.</p> <p><b>Rationale</b> In practice, we have required Bachelor of Music in Musical Theatre students to enroll in THEA 2110 Sophomore Recital Prep and THEA 4110 Senior Recital Prep. However, these courses have never officially been added to the curriculum or degree plan for this degree. This proposal will rectify that oversight, adding these two 0-hour courses to the degree curriculum, the degree plan, and the University General Catalog.</p> <p>This modification is also necessary to accurately reflect the number of recitalists that need to be assigned to theatre faculty. Both courses are listed as requirements for the BFA Musical Theatre degree. Doing likewise for the Bachelor of Music in Musical Theatre will align the Sophomore and Senior recitals in both musical theatre degrees.</p> <p><b>Catalog Entry</b> To the Requirements for a major in Musical Theatre (Music Emphasis), add:</p> <p>Theatre Core: THEA 2110 Sophomore Recital Preparation and THEA 4110 Senior Recital Preparation.</p>
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## Humanities

**ENGL 3703-3793**

**Short Form**

**Proposed Change**

Change ENGL 3703-3793 Masterpieces of World Literature from a 3000-level to a 2000-level course.

**Rationale**

The department wants to match this on-demand course with Shiloh Christian High School's second-semester world literature course as part of our concurrent credit agreement. Shiloh's first semester world literature course will count concurrently for our CORE 2233 World Literature course.

**Catalog Entry**

ENGL 2703-2793. Masterpieces of World Literature.

This variable topic course presents the chief movements and greatest authors of world literature. The course may be taken twice for credit providing that the topics are different. On Demand.

## Natural Sciences

<p><b>CMDS Degree Requirements</b></p>	<p><b>Proposed Changes</b> Add the following to the requirements for a major in Communication Sciences and Disorders:</p> <ul style="list-style-type: none"> <li>• Add statistics course options to the additional requirements menu: PSYC 2054 Statistics, SOCI 2034 Statistics in Social Science, MATH 2063 Elementary Statistics, or BUAD 2033 Statistics for Business and Economics.</li> <li>• Add College Writing 2 course options: CORE 2053 Composition II or ENGL 3013 Technical and Professional Writing.</li> </ul> <p><b>Rationale</b> CMDS majors are strongly encouraged to take a statistics course as preparation for graduate studies. Including this in the degree plan and in the catalog informs potential students of that requirement. Also, this change reflects current advising practice. (Note that 27 out of 27 May 2018 and May 2019 graduates have or will have taken a statistics course as an elective.)</p> <p>Although the department has ensured that CMDS majors take CORE 2053 or ENGL 3013 as the required CW2 course, it was not specified in the CMDS degree requirements.</p> <p><b>Catalog Entry</b> Requirements for a major in Communication Sciences and Disorders: CMDS 1001, 1013, 2023, 3001, 3002, 3013 or 3113, 3023, 3063, 4003, 4013, 4033, 4053, 4063, 4601; choose two of the following: PSYC 1013, PSYC 3013/SOCI 3013, BIOL/PSYC 3064, NSCI 4002, SOCI 4073, PSYC 2054*, SOCI 2034*, MATH 2063*, BUAD 2033* (only one Statistics course may be counted toward fulfillment of this requirement); CORE 2053 or ENGL 3013; eighteen hours in one related field. The requirement for a minor is waived.</p>
<p><b>CSCI Degree Requirements</b></p> <p><b>Short Form</b></p>	<p><b>Proposed Change</b> Add ENGL 3013 Technical and Professional Writing to the B.S. and B.A. degree requirements in Computer Science and designate it as the College Writing 2 course.</p> <p><b>Rationale</b> The department's current practice is that ENGL 3013 satisfies the College Writing 2 requirement. Adding the course to the degree requirements clarifies this practice in the catalog.</p> <p><b>Catalog Entry</b> Requirements for a major in Computer Science: B.S. degree: CSCI 1044, 1064, 2103, 3093, 3463, 4023, 4043, 4103, nine additional hours in computer science; MATH 1073, 2014, 2073, 3093; ENGL 3013 (CW2), CHEM 1004 or PHYS 2054; PHIL 4013 or BUAD 4083. A minor must be completed in biology, chemistry, physics or mathematics.  B.A. degree: CSCI 1044, 1064, 2103, 3053, 3463, 4033, 4103, nine additional hours in Computer Science; MATH 1073, 2073; ENGL 3013 (CW2), PHIL 4013 or BUAD 4083.</p>

<p><b>DIET Degree Requirements</b></p> <p><b>Short Form</b></p>	<p><b>Proposed Change</b></p> <p>Indicate that ENGL 3013 Technical and Professional Writing satisfies the College Writing 2 (CW2) requirement for the B.S. degree in Nutrition and Dietetics.</p> <p><b>Rationale</b></p> <p>The department's current practice is that ENGL 3013 satisfies the university's College Writing 2 requirement. Adding the CW2 notation clarifies this practice in the catalog.</p> <p><b>Catalog Entry</b></p> <p>Requirements for the B.S. degree with a major in Nutrition and Dietetics meeting the prerequisites to enter a Dietetic Internship accredited by the Academy of Nutrition and Dietetics: DIET 1001, 2003, 2043, 3053, 3083, 3093, 3203, 3402, 4013, 4031, 4033, 4041, 4043, 4051, 4053, 4063, 4092; BIOL 1014, 2024, 2604; CHEM 1024, 1034, 3203; MATH 1003, 2063; BUAD 1033; ENGL 3013 (CW2); PSYC 1013 or SOCI 1003. A minor is not required.</p>
<p><b>MATH 1073</b></p>	<p><b>Proposed Change</b></p> <p>Replace MATH 1073 Discrete Mathematics I with a new course, MATH 1xx3 Introduction to Cryptology.</p> <p><b>Rationale</b></p> <p>MATH 1XX3 Introduction to Cryptology will be a redesign of the existing MATH 1073 Discrete Mathematics I course. It will cover the same mathematical content but in a different sequence, using cryptology as the narrative theme for the course instead of as the concluding applications.</p> <p>The students uniformly love the modular arithmetic and cryptology content in MATH 1073, but this occurs over the last half of the course. We believe that the course will be more engaging for the entire semester if we reorganize the content so that cryptology can be covered throughout. It will also allow the time for students to engage in more challenging cryptanalysis problems than we can reasonably cover in the last few weeks of the semester.</p> <p>We also believe that repackaging the course could be helpful for recruiting undecided students into the course and/or major. We are especially hoping that mathematically inclined students who are inclined to take College Algebra might instead be drawn to this course as a more interesting and more relevant way to meet their mathematics requirement.</p> <p><b>Catalog Entry</b></p> <p>Delete:</p> <p>MATH 1073 Discrete Mathematics I.</p> <p>Add:</p> <p>MATH 1xx3. Introduction to Cryptology.</p> <p>This course explores the science of communication security. Students explore a variety of historical approaches to encryption, the cryptanalysis techniques that arose to crack those codes, and some of the more modern mathematical algorithms commonly used in practice today. Mathematical content includes counting, probability, elementary number theory, modular arithmetic, matrices, and primality testing. Prerequisite: Official placement or a grade of C or better in MATH 1003. Fall.</p>

**MATH  
Requirements  
for ELED  
Majors**

**Proposed Changes**

- Remove the following two courses from the catalog and from the requirements for the B.A. in Elementary Education:
  - MATH 2033 Mathematics for Elementary Teachers I
  - MATH 3013 Mathematics for Elementary Teachers II
- Change the time offering of ELED 4733 Pedagogy in Elementary Mathematics from Fall to On Demand.
- Add the following three new courses to the catalog and include them in the requirements for the B.A. in Elementary Education:
  - MATH 2xx3 Number Sense and Operations
  - MATH 3xx3 Geometry and Algebra
  - MATH 3xx3 Probability, Data Analysis, and Computing

**Rationale**

The Arkansas Department of Education recently revised the list of competencies for elementary teachers, changing some of the mathematics competencies and adding a new set of computing competencies. In response to these changes, OBU Mathematics and Education faculty met to decide the best way to address these new requirements. We agreed that the best approach would be to reorganize the mathematical content and to blend the content and pedagogy throughout the three courses. This allows us to effectively and efficiently cover the new competencies without having to increase the number of credit hours required for the degree.

ELED 4733 Pedagogy in Elementary Mathematics will be changed to On Demand, making it available to students who have already taken Mathematics for Elementary Teachers I and Mathematics for Elementary Teachers II.

**Catalog Entries**

Delete:

MATH 2033 and MATH 3013.

Add:

MATH 2xx3. Number Sense and Operations.

An introduction to the mathematical concepts underlying the traditional computational techniques for elementary school mathematics, and to instructional methods that can be used to teach these ideas at the elementary school level. Open only to students majoring in Elementary Education.

Prerequisite: Official placement or a grade of C or better in ASKL 1013. Fall.

MATH 3xx3. Geometry and Algebra.

Basic ideas of geometry, including plane regions and space figures, measurement, relations, functions and graphs, linear equations, and logic. Instructional methods that can be used to teach these ideas at the elementary school level. Open only to students majoring in Elementary Education. Prerequisite:

MATH 2XX3. Spring.

MATH 3yy3 Probability, Data Analysis, and Computing

Basic ideas of probability, data analysis, and computing, and instructional methods that can be used

	<p>to teach these ideas at the elementary school level. Open only to students majoring in Elementary Education. Prerequisite: MATH 2xx3. Fall.</p> <p>Change the requirements for the B.A. in Elementary Education:</p> <p>Under Flexible Core Requirements,  Remove MATH 2033 Mathematics for Elementary Teachers I  Add MATH 2xx3 Number Sense and Operations</p> <p>Under Related Requirements,  Remove MATH 3013 Mathematics for Elementary Teachers II  Add MATH 3xx3 Geometry and Algebra  Add MATH 3yy3 Probability, Data Analysis, and Computing</p> <p>Under Teaching Field Requirements  Remove ELED 4733 Pedagogy in Elementary Mathematics</p>
<p><b>MATH Requirements for SCED Majors</b></p>	<p><b>Proposed Changes</b></p> <p>Change the requirements for the B.A. Mathematics (Teaching Emphasis) as follows:</p> <p>Delete these courses:  MATH 1073 Discrete Mathematics I  MATH 3083 History of Mathematics</p> <p>Add these courses:  MATH 1XX3 Introduction to Cryptology  MATH 4463 Mathematical Scholarship</p> <p>Remove CHEM 1004 as an option for the science area requirement, so that students are required to take PHYS 2054 instead of choosing between the two.</p> <p><b>Rationale</b></p> <p>MATH 1xx3 Introduction to Cryptology is a redesign of the existing MATH 1073 Discrete Mathematics I course. It will cover the same mathematical content but in a different sequence, using cryptology as the narrative theme for the course instead of as the concluding applications. Note, in particular, that this course will address the same set of competencies as did Discrete Math I. The creation of this new course is included in a separate proposal.</p> <p>The bulk of the department’s mathematics program assessment takes place in the Mathematical Scholarship course. As a spring course, our math ed students have not been able to take it and so we have not been able to collect the same data on them that we do on the rest of our majors. A separate proposal will be moving the Scholarship class to the fall semester, allowing us to collect program assessment data on all of our graduating seniors. The focus of that class is being shifted towards applied math/math modeling, which will allow us to address some competencies with our math ed students that were previously not being covered thoroughly. The competencies that were previously addressed in the Math History course will instead be spread throughout several other courses in the curriculum, as well as addressed in a specific assignment in the Scholarship class.</p>

Students are currently required to take either University Physics 1 or General Chemistry 1 as an area requirement for the degree. We are removing the Chemistry option for two reasons. First, from a practical standpoint, almost all of our students are choosing the Physics course anyway, so removing the option essentially reflects what is already happening in practice. Second, and probably more importantly, as they teach courses in the high school mathematics curriculum, our students are much more likely to be using application examples from Physics than from Chemistry – indeed, the bulk of applications in trigonometry and calculus courses come from Physics. For this reason, we believe that taking the Physics course will better prepare them for their mathematics teaching careers.

### **Catalog Entries**

In the Secondary Education and 7-12 Licensure portion of the catalog:

Under Subject Area Requirements, change the MATHEMATICS course list to

MATH 1XX3, 2014, 2024, 2343, 3003, 3034, 3053, 3063, 3093, 4013, 4463, 4883. CSCI 1044, PHYS 2054.

In the Mathematics (MATH) portion of the catalog:

Change the Requirements for a B.A. in Mathematics (Teaching Emphasis) to

MATH 1XX3, 2014, 2024, 2343, 3003, 3034, 3053, 3063, 3093, 4013, 4463, 4883. CSCI 1044, PHYS 2054. In addition, students must complete a second major in Secondary Education as outlined on page 83.

## Social Sciences

**PSYC 3073****Short Form****Proposed Change**

Change the PSYC 3073 course title from Psychological Testing to Psychometrics.

**Rationale**

Psychometrics is the current title used for courses focused on the development and use of tests and measurements of psychological constructs. This is the exact description of this course. Psychological Testing typically refers to the clinical training provided to administer standardized assessments. This is not what the current course is designed to teach. The department wants to change the name so that the title more appropriately represents the description of the course.

**Catalog Entry**

PSYC 3073. Psychometrics.

An introduction to the basic theories and principles behind the development and use of tests and measurements of psychological constructs. Prerequisites: PSYC 1013, 2054. On Demand.