

Attachment 1a

Academic Affairs

Consent Agenda Supplemental Information - Curriculum Proposals

FS Exec Committee Review – October 30, 2018 Meeting

In order by College, not by the Curriculum Agenda

<https://kstate.curriculog.com/agenda:499/form>

Education	Secondary Education (B.S. in Education) EDBSC Biology Teacher Licensure Program EDBUS Business Teacher Licensure Program EDENG English Teacher Licensure Program EDESC Earth and Space Science Teaching Field EDJOR Journalism Teacher Licensure Program EDPEH PE/Health Teacher Licensure Program EDSPH Speech Teacher Licensure Program EDSST Social Studies Education Curriculum EDTEC Technology Teacher Licensure Program EDPHY Physics Teacher Licensure Program	Pages 2-21
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Education

Secondary Education (B.S. in Education)

Rationale: Revision of the program to meet 120 hours mandated by KBOR and updating of the previous curriculum.

Impact Statement: Dr. Goodson has discussed with Dr. L. Benjamin and consent garnered. Email is an attached file. Dr. Goodson met with the HDFS Unit/School of Family Studies & Human Services on June 1. Concerns were expressed regarding the removal of HDFS 110 as a requirement for this degree program and the potential negative impact on the unit. Although sympathetic to the need to streamline the degree program, they remain concerned about the proposed change as they think a solid understanding of human development (youth development) is essential for educators. The College of Education agrees a solid understanding of human development is essential for educators. This is why a human development course continues to be a requirement for our degrees. The vast majority of our face-to-face students will continue to take HDFS 110. The changes currently proposed will ensure transfer and distance students who take comparable human development courses from other institutions receive credit for meeting this requirement.

http://catalog.k-state.edu/preview_program.php?catoid=40&poid=13048&returnto=7005

<p>Secondary Education (B.S. in Education)</p> <p>Minimum of 126 credit hours required</p> <p>Bachelor's degree requirements</p> <p>General Education Requirements (33 credit hours minimum)</p> <p>Communications (8-9 credit hours)</p> <p><i>(A grade of C or better is required)</i></p> <ul style="list-style-type: none">• COMM 105 - Public Speaking IA Credits: 2• or• COMM 106 - Public Speaking I Credits: 3• or• COMM 109 - Public Speaking 1A, Honors Credits: 3• ENGL 100 - Expository Writing I Credits: 3• ENGL 200 - Expository Writing II Credits: 3 <p>Humanities (6 credit hours)</p> <p>Literature</p>	<p>Secondary Education (B.S. in Education)</p> <p>Minimum of 120 credit hours required</p> <p>Bachelor's degree requirements</p> <p>General Education Requirements (33 credit hours minimum)</p> <p>Communications (8-9 credit hours)</p> <p><i>(A grade of C or better is required)</i></p> <ul style="list-style-type: none">• COMM 105 - Public Speaking IA Credits: 2• or• COMM 106 - Public Speaking I Credits: 3• or• COMM 109 - Public Speaking 1A, Honors Credits: 3• ENGL 100 - Expository Writing I Credits: 3• ENGL 200 - Expository Writing II Credits: 3 <p>Humanities (6 credit hours)</p> <p>Literature</p>
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<ul style="list-style-type: none"> Any department of English literature or Department of Modern Languages literature course Credits: 3 <p>Fine arts appreciation</p> <ul style="list-style-type: none"> Any nonperformance appreciation class in the Departments of Art, Architecture, Modern Languages or the School of Music, Theatre and Dance Credits: 3 <p>Social science (6 credit hours)</p> <p>Elective from Departments of AMETH, ANTH, ECON, GEOG, GWSS, HIST, POLSC, PSYCH, SOCIO Credits: 3</p> <p>Global Issues and Perspective course (tagged as meeting the K-State 8 requirements) from Departments of AMETH, ANTH, ECON, GEOG, GWSS, HIST, POLSC, PSYCH, SOCIO Credits: 3</p> <p>Natural science (7 credit hours)</p> <ul style="list-style-type: none"> One lab required. <p>Quantitative sciences (6 credit hours)</p> <ul style="list-style-type: none"> MATH 100 - College Algebra Credits: 3 (or higher level math course) (Grade of C or better) STAT 325 - Introduction to Statistics Credits: 3 <p>Teacher Education Courses (40 credit hours)</p> <p>A grade of C or higher is required in all Teacher Education courses and practica. A 3.0 or higher grade point average in Teacher Education courses and practica is needed before the Professional Semester.</p> <p>Pre-Professional Component (8 credit hours)</p> <ul style="list-style-type: none"> DED 075 - Orientation to Teacher Education at KSU Credits: 0 EDCI 200 - Teaching as a Career Credits: 1 EDCI 230 - Early Field Experience Credits: 1 	<ul style="list-style-type: none"> Any department of English literature or Department of Modern Languages literature course Credits: 3 <p>Fine arts</p> <ul style="list-style-type: none"> Any class in the Departments of Art, Modern Languages, Philosophy, or the School of Music, Theatre and Dance Credits: 3 <p>Social science (6 credit hours)</p> <ul style="list-style-type: none"> Global Issues and Perspective course (tagged as meeting the K-State 8 requirements) from Departments of AMETH, ANTH, ECON, GEOG, GWSS, HIST, POLSC, PSYCH, SOCIO Credits: 3 <p>Human Development Course Credits: 3</p> <p>Natural science (7 credit hours)</p> <ul style="list-style-type: none"> One lab required. <p>Quantitative sciences (6 credit hours)</p> <ul style="list-style-type: none"> MATH 100 - College Algebra Credits: 3 (or higher level math course) (Grade of C or better) STAT 325 - Introduction to Statistics Credits: 3 <p>Teacher Education Courses (37 credit hours)</p> <p>A grade of C or higher is required in all Teacher Education courses and practica. A 3.0 or higher grade point average in Teacher Education courses and practica is needed before the Professional Semester.</p> <p>Pre-Professional Component (5 credit hours)</p> <ul style="list-style-type: none"> DED 075 - Orientation to Teacher Education at KSU Credits: 0 EDCI 200 - Teaching as a Career Credits: 1
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- EDCI 310 - Foundations of Education
Credits: 3
- ~~HDFS 110 - Introduction to Human Development~~ **Credits: 3**

Professional Education Component (32 credit hours)

Admission to teacher education required.

Non-blocked courses (Must be completed before student teaching)

- EDCI 318 - Educational Technology for Teaching and Learning **Credits: 1**
- (Must be completed before Block II.)
- EDSEC 405 - Middle-Level Education **Credits: 2**
- (Not required for K-12 majors in art, modern languages, music, or physical education/health.)

Students receiving a grade of less than C in a Block 1 course will not be permitted to proceed to Block 2 until a grade of C or higher is recorded (i.e., must retake the Block 1 course first).

Block 1 (8 credit hours)

Courses must be taken concurrently and prior to Block II.

- EDCEP 315 - Educational Psychology **Credits: 3**
- EDCI 320 - Core Teaching Skills and Lab **Credits: 3**
- EDSP 323 - Exceptional Students in the Secondary School **Credits: 2**

Block II (9 credit hours)

Courses must be taken concurrently and prior to Student Teaching.

- EDCEP 525 - Interpersonal Relations in the Schools **Credits: 1**
- EDSEC 455 - Teaching in a Multicultural Society **Credits: 1**

- EDCI 230 - Early Field Experience
Credits: 1
- EDCI 310 - Foundations of Education
Credits: 3

Professional Education Component (32 credit hours)

Admission to teacher education required.

Non-blocked courses (Must be completed before student teaching)

- EDCI 318 - Educational Technology for Teaching and Learning **Credits: 1**
- (Must be completed before Block II.)
- EDSEC 405 - Middle-Level Education **Credits: 2**
- (Not required for K-12 majors in art, modern languages, music, or physical education/health.)

Students receiving a grade of less than C in a Block 1 course will not be permitted to proceed to Block 2 until a grade of C or higher is recorded (i.e., must retake the Block 1 course first).

Block 1 (8 credit hours)

Courses must be taken concurrently and prior to Block II.

- EDCEP 315 - Educational Psychology **Credits: 3**
- EDCI 320 - Core Teaching Skills and Lab **Credits: 3**
- EDSP 323 - Exceptional Students in the Secondary School **Credits: 2**

Block II (9 credit hours)

Courses must be taken concurrently and prior to Student Teaching.

- EDCEP 525 - Interpersonal Relations in the Schools **Credits: 1**
- EDSEC 455 - Teaching in a Multicultural Society **Credits: 1**

- EDSEC 477 - Content Area Literacies and Diverse Learners **Credits: 2**

Choose one of the following that corresponds to your teaching field:

- EDSEC 530 - Art Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 532 - Business Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 534 - Family and Consumer Science Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 536 - Language Arts Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 538 - Mathematics Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 540 - Modern Language Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 542 - Science Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 544 - Social Studies Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 546 - Physical Education/Health Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 548 - Technology Education Methods for Secondary and Middle Schools **Credits: 3**

Choose one of the following that corresponds to your teaching field:

- EDSEC 531 - Art Methods Practicum **Credits: 2**
- EDSEC 533 - Business Methods Practicum **Credits: 2**
- EDSEC 535 - Family and Consumer Science Methods Practicum **Credits: 2**
- EDSEC 537 - Language Arts Methods Practicum **Credits: 2**
- EDSEC 539 - Mathematics Methods Practicum **Credits: 2**
- EDSEC 541 - Modern Language Methods Practicum **Credits: 2**
- EDSEC 543 - Science Methods Practicum **Credits: 2**
- EDSEC 545 - Social Studies Methods Practicum **Credits: 2**

- EDSEC 477 - Content Area Literacies and Diverse Learners **Credits: 2**

Choose one of the following that corresponds to your teaching field:

- EDSEC 530 - Art Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 532 - Business Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 534 - Family and Consumer Science Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 536 - Language Arts Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 538 - Mathematics Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 540 - Modern Language Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 542 - Science Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 544 - Social Studies Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 546 - Physical Education/Health Methods for Secondary and Middle Schools **Credits: 3**
- EDSEC 548 - Technology Education Methods for Secondary and Middle Schools **Credits: 3**

Choose one of the following that corresponds to your teaching field:

- EDSEC 531 - Art Methods Practicum **Credits: 2**
- EDSEC 533 - Business Methods Practicum **Credits: 2**
- EDSEC 535 - Family and Consumer Science Methods Practicum **Credits: 2**
- EDSEC 537 - Language Arts Methods Practicum **Credits: 2**
- EDSEC 539 - Mathematics Methods Practicum **Credits: 2**
- EDSEC 541 - Modern Language Methods Practicum **Credits: 2**
- EDSEC 543 - Science Methods Practicum **Credits: 2**
- EDSEC 545 - Social Studies Methods Practicum **Credits: 2**

- EDSEC 547 - Physical Education/Health Practicum for Secondary and Middle Schools **Credits: 2**
- EDSEC 549 - Technology Education Practicum for Secondary and Middle Schools **Credits: 2**

Professional Semester (12 credit hours)

A 3.0 or higher grade point average in Teacher Education courses and practica is needed before the Professional Semester.

- EDSEC 586 - Teaching Internship in Secondary Schools **Credits: 1-12**

Internship Requirements

Internship requirements vary by teaching field. The following courses may also be used to complete the 12 credit minimum.

- EDSEC 582 - Teaching Internship in Music **Credits: 6-12**
- EDEL 585 - Teaching Internship in Elementary Schools **Credits: 1-15**

Teaching Field (One of the following areas must be selected)

- Art (47 credits)
- Biology (68-69 credits)
- Business (55 credits)
- Chemistry (58 credits)
- Earth and Space Science (64 credits)
- English (39 credits)
- English and Journalism (48 credits)
- Journalism (33 credits)
- Mathematics (40 credits)
- Modern Languages (34-36 credits)
- Physical Education/Health (53 credits)
- Physics (65 credits)
- Social Studies (64 credits)
- Speech (42 credits)
- Technology Education (67 credits)

Total hours required for graduation (126)

Teacher Education programs are also available from Agriculture, Family and Consumer Sciences, Early Childhood, and Music.

- EDSEC 547 - Physical Education/Health Practicum for Secondary and Middle Schools **Credits: 2**
- EDSEC 549 - Technology Education Practicum for Secondary and Middle Schools **Credits: 2**

Professional Semester (12 credit hours)

A 3.0 or higher grade point average in Teacher Education courses and practica is needed before the Professional Semester.

- EDSEC 586 - Teaching Internship in Secondary Schools **Credits: 1-12**

Internship Requirements

Internship requirements vary by teaching field. The following courses may also be used to complete the 12 credit minimum.

- EDSEC 582 - Teaching Internship in Music **Credits: 6-12**
- EDEL 585 - Teaching Internship in Elementary Schools **Credits: 1-15**

Teaching Field (One of the following areas must be selected)

- Art (49 credits)
- Biology (62 credits)
- Business (50 credits)
- Chemistry (58 credits)
- Earth and Space Science (62 credits)
- English (42 credits)
- English and Journalism (48 credits)
- Journalism (42 credits)
- Mathematics (40 credits)
- Modern Languages (34-36 credits)
- Physical Education/Health (48 credits)
- Physics (58 credits)
- Social Studies (57 credits)
- Speech (47 credits)
- Technology Education (60 credits)

Total hours required for graduation (120)

Teacher Education programs are also available from Agriculture, Family and Consumer Sciences, Early Childhood, and Music.

(EDBSC) Biology Teacher Licensure Program

Rationale: This proposal is to align the Biology (EDBSC) Teacher Licensure Program in accord with the KBOR mandate of programs being 120 hours.

Impact: Dr. Goodson has discussed with Dr. L. Benjamin and consent garnered. Email is an attached file.

http://catalog.k-state.edu/preview_program.php?catoid=40&poid=13152&returnto=7005

<p>Biology (EDBSC) Teacher Licensure Program</p> <hr/> <p>Bachelor degree requirements</p> <p>Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.</p> <p>Licensure requirement (68-69 credit hours)</p> <ul style="list-style-type: none">• BIOL 198 - Principles of Biology Credits: 4• BIOL 201 - Organismic Biology Credits: 5• BIOL 330 - Public Health Biology Credits: 3• BIOL 455 - General Microbiology Credits: 4• BIOL 541 - Cell Biology Credits: 3• BIOL 303 - Ecology of Environmental Problems Credits: 3• or• BIOL 529 - Ecology Credits: 3• ASI 500 - Genetics Credits: 3• or• BIOL 450 - Modern Genetics Credits: 4• Approved electives at the 300 level or higher from the Department of Biology or related life sciences Credits: (6-7) (e.g., entomology, horticulture, plant pathology, etc.) <p>Chemistry courses required</p> <ul style="list-style-type: none">• CHM 210 - Chemistry I Credits: 4	<p>Biology (EDBSC) Teacher Licensure Program</p> <hr/> <p>Bachelor degree requirements</p> <p>Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.</p> <p>Licensure requirement (62-63 credit hours)</p> <ul style="list-style-type: none">• BIOL 198 - Principles of Biology Credits: 4• BIOL 201 - Organismic Biology Credits: 5• BIOL 330 - Public Health Biology Credits: 3• BIOL 455 - General Microbiology Credits: 4• BIOL 541 - Cell Biology Credits: 3• BIOL 303 - Ecology of Environmental Problems Credits: 3• or• BIOL 529 - Ecology Credits: 3• ASI 500 - Genetics Credits: 3• or• BIOL 450 - Modern Genetics Credits: 4 <p>Chemistry courses required</p>
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<ul style="list-style-type: none"> • CHM 230 - Chemistry II Credits: 4 • CHM 350 - General Organic Chemistry Credits: 3 • CHM 351 - General Organic Chemistry Laboratory Credits: 2 <p>Other required courses</p> <ul style="list-style-type: none"> • EDSEC 614 - Laboratory Techniques in Teaching Science Credits: 3 • GEOL 103 - Geology Laboratory Credits: 1 • GEOL 512 - Earth Science Credits: 3 • MATH 100 - College Algebra Credits: 3 • MATH 150 - Plane Trigonometry Credits: 3 • PHYS 115 - Descriptive Physics Credits: 5 • PHYS 191 - Descriptive Astronomy Credits: 3 • STAT 325 - Introduction to Statistics Credits: 3 	<ul style="list-style-type: none"> • CHM 210 - Chemistry I Credits: 4 • CHM 230 - Chemistry II Credits: 4 • CHM 350 - General Organic Chemistry Credits: 3 • CHM 351 - General Organic Chemistry Laboratory Credits: 2 <p>Other required courses</p> <ul style="list-style-type: none"> • EDSEC 614 - Laboratory Techniques in Teaching Science Credits: 3 • GEOL 103 - Geology Laboratory Credits: 1 • GEOL 100- Earth In Action Credits: 3 • MATH 100 - College Algebra Credits: 3 • MATH 150 - Plane Trigonometry Credits: 3 • PHYS 115 - Descriptive Physics Credits: 5 • PHYS 191 - Descriptive Astronomy Credits: 3 • STAT 325 - Introduction to Statistics Credits: 3
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EDBUS Business Teacher Licensure Program

Rationale: Revision of the program to meet 120 hours mandated by KBOR and updating of the previous curriculum.

Impact Statement: Dr. Goodson has discussed with Dr. L. Benjamin and consent garnered. Email is an attached file.

http://catalog.k-state.edu/preview_program.php?catoid=40&poid=13045&returnto=7005

<p>Business (EDBUS) Teacher Licensure Program</p> <hr/> <p>Bachelor degree requirements</p> <p>Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education</p>	<p>Business (EDBUS) Teacher Licensure Program</p> <hr/> <p>Bachelor degree requirements</p> <p>Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education</p>
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courses, and the teaching field requirements listed here.

Licensure requirements (55 credit hours)

Teaching Field - Business

- [ACCTG 231 - Accounting for Business Operations](#) Credits: 3
- [ACCTG 241 - Accounting for Investing and Financing](#) Credits: 3
- [ENTRP 340 - Introduction to Entrepreneurship](#) Credits: 3
- [FINAN 450 - Principles of Finance](#) Credits: 3
- [GENBA 166 - Business Information Technology Skills Proficiency](#) Credits: 0
- [MANGT 366 - Information Technology for Business](#) Credits: 3
- [MANGT 390 - Business Law I](#) Credits: 3
- [MANGT 420 - Principles of Management](#) Credits: 3
- [MANGT 595 - Business Strategy](#) Credits: 3
- [MKTG 400 - Introduction to Marketing](#) Credits: 3
- [MKTG 450 - Consumer Behavior](#) Credits: 3
- [MKTG 542 - Fundamentals of Professional Selling](#) Credits: 3
- or
- [COMM 311 - Business and Professional Speaking](#) Credits: 3

Supporting courses

- [CIS 111 - Introduction to Computer Programming](#) Credits: 3
- or
- [MIS 411 - Studio 1: Business Programming Applications I](#) Credits: 3
- [ECON 110 - Principles of Macroeconomics](#) Credits: 3
- [ECON 120 - Principles of Microeconomics](#) Credits: 3
- [PFP 105 - Introduction to Personal Financial Planning](#) Credits: 3
- or
- [PFP 310 - Family and Consumer Economics](#) Credits: 3

courses, and the teaching field requirements listed here.

Licensure requirements (49 credit hours)

Teaching Field - Business

- [ACCTG 231 - Accounting for Business Operations](#) Credits: 3
- [ACCTG 241 - Accounting for Investing and Financing](#) Credits: 3
- [ENTRP 340 - Introduction to Entrepreneurship](#) Credits: 3
- [FINAN 450 - Principles of Finance](#) Credits: 3
- [GENBA 166 - Business Information Technology Skills Proficiency](#) Credits: 0
- [MANGT 366 - Information Technology for Business](#) Credits: 3
- [MANGT 390 - Business Law I](#) Credits: 3
- [MANGT 420 - Principles of Management](#) Credits: 3
- [MANGT 595 - Business Strategy](#) Credits: 3
- [MKTG 400 - Introduction to Marketing](#) Credits: 3
- [MKTG 450 - Consumer Behavior](#) Credits: 3
- [MKTG 542 - Fundamentals of Professional Selling](#) Credits: 3
- or
- [COMM 311 - Business and Professional Speaking](#) Credits: 3

Supporting courses

- [CIS 111 - Introduction to Computer Programming](#) Credits: 3
- or
- [MIS 411 - Studio 1: Business Programming Applications I](#) Credits: 3
- [ECON 110 - Principles of Macroeconomics](#) Credits: 3
- [ECON 120 - Principles of Microeconomics](#) Credits: 3
- [PFP 105 - Introduction to Personal Financial Planning](#) Credits: 3
- or
- [PFP 310 - Family and Consumer Economics](#) Credits: 3

<p>Additional Teacher Education Courses:</p> <ul style="list-style-type: none"> • EDSEC 620 - Principles and Philosophy of Career and Technical Education Credits: <u>2-3</u> • EDSEC 621 - Program Planning in Career and Technical Education Credits: <u>3</u> 	<p>Additional Teacher Education Courses:</p> <ul style="list-style-type: none"> • EDSEC 620 - Principles and Philosophy of Career and Technical Education Credits: 2-3 • EDSEC 621 - Program Planning in Career and Technical Education Credits <u>2-3</u>
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EDENG English Teacher Licensure Program

Rationale: Revision of the program to meet 120 hours mandated by KBOR and updating of the previous curriculum.

Impact Statement: Dr. Goodson has discussed with Dr. L. Benjamin and consent garnered. Email is an attached file.

http://catalog.k-state.edu/preview_program.php?catoid=40&poid=13044&returnto=7005

<p>English (EDENG) Teacher Licensure Program Bachelor degree requirements</p> <p>Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.</p> <p>Licensure requirements (39 credit hours)</p> <p>Three of the following four survey courses:</p> <ul style="list-style-type: none"> • ENGL 361 - British Survey I Credits: 3 • ENGL 362 - British Survey II Credits: 3 • ENGL 381 - American Survey I Credits: 3 • ENGL 382 - American Survey II Credits: 3 <p>Required:</p> <ul style="list-style-type: none"> • ENGL elective 320 or above Credits: 3 • ENGL World literature course Credits: 3 • ENGL Literature electives at 600 level and above Credits: 6 • ENGL Composition elective Credits: 3 • ENGL 310 - Introduction to Literary Studies Credits: 3 • ENGL 350 - Introduction to Shakespeare Credits: 3 • ENGL 400 - Advanced Expository Writing for Prospective Teachers Credits: 3 • ENGL 435 - Linguistics for Teachers of English Credits: 3 • ENGL 545 - Literature for Adolescents Credits: 3 	<p>English (EDENG) Teacher Licensure Program Bachelor degree requirements</p> <p>Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.</p> <p>Licensure requirements (42 credit hours)</p> <p>Three of the following four survey courses:</p> <ul style="list-style-type: none"> • ENGL 361 - British Survey I Credits: 3 • ENGL 362 - British Survey II Credits: 3 • ENGL 381 - American Survey I Credits: 3 • ENGL 382 - American Survey II Credits: 3 <p>Required:</p> <ul style="list-style-type: none"> • ENGL elective 320 or above Credits: 3 • ENGL World literature course Credits: 3 • ENGL Literature electives at 600 level and above Credits: 6 • ENGL Composition elective Credits: 3 • ENGL 310 - Introduction to Literary Studies Credits: 3 • ENGL 350 - Introduction to Shakespeare Credits: 3 • ENGL 400 - Advanced Expository Writing for Prospective Teachers Credits: 3 • ENGL 435 - Linguistics for Teachers of English Credits: 3 • ENGL 545 - Literature for Adolescents Credits: 3 • ENGL 500 - Writing Center Theory and Practice Credits: 3
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EDESC Earth and Space Science Teaching Field

Rationale: Revision of the program to meet 120 hours mandated by KBOR and updating of the previous curriculum.

Impact Statement: Dr. Goodson has discussed with Dr. L. Benjamin and consent garnered. Email is an attached file.

Earth and Space Science (EDESC) Teacher Licensure Program

Bachelor degree requirements

Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.

Licensure requirement (64 credit hours)

- GEOL 100 - Earth in Action **Credits: 3**
- GEOL 102 - Earth Through Time **Credits: 3**
- GEOL 103 - Geology Laboratory **Credits: 1**
- GEOL 105 - Oceanography **Credits: 3**
- GEOL 502 - Mineralogy **Credits: 3**
- GEOL 510 - Geology of Planets **Credits: 3**
- or
- GEOL 540 - Geologic Record of Climate Change **Credits: 3**
- GEOL 520 - Geomorphology **Credits: 3**
- or
- GEOL 630 - Sedimentology and Stratigraphy **Credits: 3**

Supporting courses required

- BIOL 198 - Principles of Biology **Credits: 4**
- ~~BIOL 303 - Ecology of Environmental Problems **Credits: 3**~~
- CHM 210 - Chemistry I **Credits: 4**
- CHM 230 - Chemistry II **Credits: 4**
- EDSEC 614 - Laboratory Techniques in Teaching Science **Credits: 3**
- GEOG 221 - Introductory Physical Geography **Credits: 4**
- GEOG 535 - Fundamentals of Climatology **Credits: 4**
- MATH 100 - College Algebra **Credits: 3**
- MATH 150 - Plane Trigonometry **Credits: 3**

Earth and Space Science (EDESC) Teacher Licensure Program

Bachelor degree requirements

Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.

Licensure requirement (62 credit hours)

- GEOL 100 - Earth in Action **Credits: 3**
- GEOL 102 - Earth Through Time **Credits: 3**
- GEOL 103 - Geology Laboratory **Credits: 1**
- GEOL 105 - Oceanography **Credits: 3**
- GEOL 502 - Mineralogy **Credits: 3**
- GEOL 510 - Geology of Planets **Credits: 3**
- or
- GEOL 540 - Geologic Record of Climate Change **Credits: 3**
- GEOL 520 - Geomorphology **Credits: 3**
- or
- GEOL 630 - Sedimentology and Stratigraphy **Credits: 3**

Supporting courses required

- BIOL 198 - Principles of Biology **Credits: 4**
- CHM 210 - Chemistry I **Credits: 4**
- CHM 230 - Chemistry II **Credits: 4**
- EDSEC 614 - Laboratory Techniques in Teaching Science **Credits: 3**
- GEOG 221 - Introductory Physical Geography **Credits: 4**
- GEOG 535 - Fundamentals of Climatology **Credits: 4**
- MATH 100 - College Algebra **Credits: 3**
- MATH 150 - Plane Trigonometry **Credits: 3**
- PHYS 113 - General Physics I **Credits: 4**
- PHYS 114 - General Physics II **Credits: 4**

<ul style="list-style-type: none"> • PHYS 113 - General Physics I Credits: 4 • PHYS 114 - General Physics II Credits: 4 • PHYS 191 - Descriptive Astronomy Credits: 3 • STAT 325 - Introduction to Statistics Credits: 3 <p>Note</p> <p>It is highly recommended that additional courses be selected to fulfill requirements for an additional teaching area in biology, physics, or chemistry. The course selection should be made in consultation with the science education advisor.</p>	<ul style="list-style-type: none"> • PHYS 191 - Descriptive Astronomy Credits: 3 • STAT 325 - Introduction to Statistics Credits: 3 <p>Note</p> <p>It is highly recommended that additional courses be selected to fulfill requirements for an additional teaching area in biology, physics, or chemistry. The course selection should be made in consultation with the science education advisor.</p>
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EDJOR Journalism Teacher Licensure Program

Rationale: Revision of the program to meet 120 hours mandated by KBOR and updating of the previous curriculum.

Impact Statement: Dr. Goodson has discussed with Dr. L. Benjamin and consent garnered. Email is an attached file.

http://catalog.k-state.edu/preview_program.php?catoid=40&poid=13041&returnto=7005

Journalism (EDJOR) Teacher Licensure Program

Bachelor degree requirements

Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.

Licensure requirements (33 credit hours)

- MC 110 - Mass Communication in Society **Credits: 3**
- MC 200 - News Reporting and Writing Across Platforms **Credits: 3**
- MC 340 - Editing for Print and Online Media **Credits: 3**
- MC 251 - Digital News **Credits: 3**
- MC 331 - Digital Photography for Mass Media **Credits: 3**
- MC 406 - KKSU-TV News Reporting **Credits: 3**
- MC 466 - Law of Mass Communications **Credits: 3**
- MC 605 - Supervision of School Publications **Credits: 3**

Electives (Recommended courses) (6 credit hours):

- ~~General education elective **Credits: 3**~~
- MC 120 - Principles of Advertising **Credits: 3**
- MC 180 - Principles of Public Relations **Credits: 3**
- ~~MC 403 - Advanced Reporting and Writing Across Platforms **Credits: 3**~~
- ~~MC 341 - Media Design and Data Visualization **Credits: 3**~~
- ~~MC 471 - Advanced Production **Credits: 3**~~
- ~~MC 564 - History of Mass Communication **Credits: 3**~~
- ~~MC 573 - Ethics in Mass Communication **Credits: 3**~~
- ~~MC 580 - Storytelling Across Platforms **Credits: 3**~~

Journalism (EDJOR) Teacher Licensure Program

Bachelor degree requirements

Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.

Licensure requirements (42 credit hours)

- MC 110 - Mass Communication in Society **Credits: 3**
- MC 200 - News Reporting and Writing Across Platforms **Credits: 3**
- MC 251 - Digital News **Credits: 3**
- MC 331 - Digital Photography for Mass Media **Credits: 3**
- MC 340 - Editing for Print and Online Media **Credits: 3**
- MC 406 - KKSU-TV News Reporting **Credits: 3**
- MC 466 - Law of Mass Communications **Credits: 3**
- MC 605 - Supervision of School Publications **Credits: 3**
- MC 120 - Principles of Advertising **Credits: 3**
- MC 180 - Principles of Public Relations **Credits: 3**
- MC 130 - Writing Conventions and Mechanics **Credits:-1**
- MC 131 - Media Writing Styles and Platforms **Credits:-1**
- MC 132 - Writing Perspectives **Credits:-1**
- MC 160 - Principles of Journalism **Credits:-3**
- MC 191 - Audio Production Foundations **Credits:-1**
- MC 192 - Pixel Foundations **Credits:-1**
- MC 193 - Video Production Foundations **Credits:-1**
- MC 194 - Social Media Foundations **Credits:-1**
- MC 195 - Vector Foundations **Credits:-1**
- MC 196 - Web-CMS Foundations **Credits:-1**

EDPEH PE/Health Teacher Licensure Program

Rationale: Revision of the program to meet 120 hours mandated by KBOR and updating of the previous curriculum.

Impact Statement: Dr. Goodson has discussed with Dr. L. Benjamin and consent garnered. Email is an attached file.

http://catalog.k-state.edu/preview_program.php?catoid=40&poid=13219&returnto=7005

Physical Education/Health (EDPEH) Teacher Licensure Program

Bachelor degree requirements

Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.

Licensure requirements (53 credit hours)

- BIOL 198 - Principles of Biology **Credits:** 4
- EDEL 520 - Physical Education/Health Methods for PK-6 Schools **Credits:** 3
- EDEL 521 - Physical Education/Health Practicum for PK-6 Schools **Credits:** 1
- EDSEC 360 - Introduction to Physical Education/Health **Credits:** 3
- EDSEC 380 - Adaptive Physical Education **Credits:** 2
- HDFS 302 - Introduction to Human Sexuality **Credits:** 3
- ~~FNDH 110 - Introduction to Public Health **Credits:** 3~~
- FNDH 132 - Basic Nutrition **Credits:** 3
- FNDH 320 - Care and Prevention of Athletic Injuries **Credits:** 3
- FNDH 352 - Personal Wellness **Credits:** 3
- KIN 220 - Biobehavioral Bases of Physical Activity **Credits:** 4
- KIN 320 - Motor Learning and Development **Credits:** 3
- KIN 330 - Biomechanics **Credits:** 3
- ~~KIN 335 - Physiology of Exercise **Credits:** 4~~
- KIN 360 - Anatomy and Physiology **Credits:** 8
- PSYCH 110 - General Psychology **Credits:** 3

Physical Education/Health (EDPEH) Teacher Licensure Program

Bachelor degree requirements

Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.

Licensure requirements (48 credit hours)

- BIOL 198 - Principles of Biology **Credits:** 4
- EDEL 520 - Physical Education/Health Methods for PK-6 Schools **Credits:** 3
- EDEL 521 - Physical Education/Health Practicum for PK-6 Schools **Credits:** 1
- EDSEC 360 - Introduction to Physical Education/Health **Credits:** 3
- EDSEC 380 - Adaptive Physical Education **Credits:** 2
- HDFS 302 - Introduction to Human Sexuality **Credits:** 3
- FNDH 132 - Basic Nutrition **Credits:** 3
- FNDH 320 - Care and Prevention of Athletic Injuries **Credits:** 3
- FNDH 352 - Personal Wellness **Credits:** 3
- KIN 220 - Biobehavioral Bases of Physical Activity **Credits:** 4
- KIN 320 - Motor Learning and Development **Credits:** 3
- KIN 330 - Biomechanics **Credits:** 3
- KIN 360 - Anatomy and Physiology **Credits:** 8
- PSYCH 110 - General Psychology **Credits:** 3
- ~~EDEL 250 - Health and Movement Education in Elementary Classrooms **Credits:** 2~~

EDSPH Speech Teacher Licensure Program

Rationale: Revision of the program to meet 120 hours mandated by KBOR and updating of the previous curriculum.

Impact: Dr. Goodson has discussed with Dr. L. Benjamin and consent garnered. Email is an attached file.

http://catalog.k-state.edu/preview_program.php?catoid=40&poid=13037

Speech (EDSPH) Teacher Licensure Program	Speech (EDSPH) Teacher Licensure Program
<p>Bachelor degree requirements</p> <p>Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.</p> <p>Licensure requirements (42 credit hours)</p> <p>All speech education majors are required to complete 36 hours of communication studies and theatre courses in addition to COMM 105 or 106, Public Speaking IA or I.</p> <ul style="list-style-type: none">• COMM 105 – Public Speaking IA Credits: 2• or• COMM 106 – Public Speaking I Credits: 3 <p>Required:</p> <ul style="list-style-type: none">• COMM 321 - Public Speaking II Credits: 3• COMM 322 - Interpersonal Communication Credits: 3• COMM 325 - Argumentation and Debate Credits: 3• COMM 326 - Small Group Discussion Methods Credits: 3• COMM 330 - Rhetoric in Western Thought Credits: 3• COMM 426 - Coaching and Directing Speech Activities Credits: 3• MC 110 - Mass Communication in Society Credits: 3• THTRE 261 - Fundamentals of Acting Credits: 3• THTRE 263 - Oral Interpretation of Literature Credits: 3• THTRE 270 - Introduction to Theatre Credits: 3• THTRE 368 - Fundamentals of Technical Production Credits: 3• THTRE 565 - Principles of Directing Credits: 3• THTRE 500 level or above in theatre Credits: 3	<p>Bachelor degree requirements</p> <p>Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.</p> <p>Licensure requirements (47 credit hours)</p> <ul style="list-style-type: none">• COMM 321 - Public Speaking II Credits: 3• COMM 322 - Interpersonal Communication Credits: 3• COMM 325 - Argumentation and Debate Credits: 3• COMM 326 - Small Group Discussion Methods Credits: 3• COMM 330 - Rhetoric in Western Thought Credits: 3• COMM 426 - Coaching and Directing Speech Activities Credits: 3• MC 110 - Mass Communication in Society Credits: 3• THTRE 211 Run Crew (concurrent w/ THTRE 369) Credits: 1• THTRE212 Wardrobe Crew (concurrent with THTRE 368) Credits: 1• THTRE 261 - Fundamentals of Acting Credits: 3• THTRE 263 - Oral Interpretation of Literature Credits: 3• THTRE 280 Script Analysis Credits: 3• THTRE 270 - Introduction to Theatre Credits: 3• THTRE 368 - Fundamentals of Technical Production Credits: 3• THTRE 369 Fund of Theatr Design Credits: 3• THTRE 565 - Principles of Directing Credits: 3• THTRE 572 History of Thtre 1 Credits: 3• OR• THTRE 573 Hist of Thtre 2 Credits 3

EDSST Social Studies Education Curriculum

Rationale: Revision of the program to meet 120 hours mandated by KBOR and updating of the previous curriculum.

Impact: Dr. Goodson has discussed with Dr. L. Benjamin and consent garnered. Email is an attached file.

http://catalog.k-state.edu/preview_program.php?catoid=40&poid=13036&returnto=7005

Social Studies (EDSST) Teacher Licensure Program	Social Studies (EDSST) Teacher Licensure Program
<p>Bachelor degree requirements</p> <p>Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.</p> <p>Licensure requirements (64 credit hours)</p> <p>Core courses required:</p> <ul style="list-style-type: none">ANTH 204 - A General Education Introduction to Cultural Anthropology Credits: 3ECON 110 - Principles of Macroeconomics Credits: 3ECON 120 - Principles of Microeconomics Credits: 3EDSEC 528 - Social Studies Colloquium Credits: 3(Must be taken concurrently with Block II)GEOG 100 - World Geography & Globalization Credits: 3GEOG 200 - Human Geography Credits: 3GEOG 221 - Introductory Physical Geography Credits: 4HIST 111 - World History to 1450 Credits: 3HIST 112 - World History From 1450 Credits: 3HIST 251 - History of the United States to 1877 Credits: 3HIST 252 - History of the United States Since 1877 Credits: 3HIST 558 - History of Kansas Credits: 3POLSC 115 - U.S. Politics Credits: 3POLSC 135 - Introduction to Comparative Politics Credits: 3orPOLSC 333 - World Politics Credits: 3POLSC 301 - Introduction to Political Thought Credits: 3SOCIO 211 - Introduction to Sociology Credits: 3 <p>History courses</p> <p>(Must be 500-level courses)</p> <ul style="list-style-type: none">U.S. history (at least 3 credits) Credits: 3Non-U.S. history (at least 3 credits) Credits: 3 <p>Upper-level social studies (Must include 9 credits; one listed course from three of the following departments) Political science:</p> <ul style="list-style-type: none">POLSC 301 - Introduction to Political Thought Credits: 3POLSC 321 - Kansas Politics and Government Credits: 3POLSC 333 - World Politics Credits: 3POLSC 525 - U.S. National Government and Politics Credits: 3POLSC 543 - American Foreign Policy Credits: 3POLSC 603 - Political Parties and Elections Credits: 3POLSC 605 - The American Presidency Credits: 3POLSC 614 - Constitutional Law Credits: 3POLSC 615 - The Constitution, Civil Rights and Civil Liberties Credits: 3POLSC 667 - American Political Thought Credits: 3 <p>Geography:</p>	<p>Bachelor degree requirements</p> <p>Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.</p> <p>Licensure requirements (57 credit hours)</p> <p>Core courses required: 46</p> <ul style="list-style-type: none">ANTH 204 - A General Education Introduction to Cultural Anthropology Credits: 3ECON 110 - Principles of Macroeconomics Credits: 3ECON 120 - Principles of Microeconomics Credits: 3GEOG 100 - World Geography & Globalization Credits: 3GEOG 200 - Human Geography Credits: 3GEOG 221 - Introductory Physical Geography Credits: 4HIST 111 - World History to 1450 Credits: 3HIST 112 - World History From 1450 Credits: 3HIST 251 - History of the United States to 1877 Credits: 3HIST 252 - History of the United States Since 1877 Credits: 3HIST 558 - History of Kansas Credits: 3POLSC 115 - U.S. Politics Credits: 3POLSC 135 - Introduction to Comparative Politics Credits: 3orPOLSC 333 - World Politics Credits: 3POLSC 301 - Introduction to Political Thought Credits: 3SOCIO 211 - Introduction to Sociology Credits: 3 <p>Upper-level social studies - 6 (Must select 6 hours from any of the following departments)</p> <ul style="list-style-type: none">A. U.S. History: Any 500-level US HIST CourseB. Non-U.S. History: Any 500-level Non-US HIST CourseC. Political science:<ul style="list-style-type: none">POLSC 321 - Kansas Politics and Government Credits: 3POLSC 333 - World Politics Credits: 3POLSC 525 - U.S. National Government and Politics Credits: 3POLSC 543 - American Foreign Policy Credits: 3POLSC 603 - Political Parties and Elections Credits: 3POLSC 605 - The American Presidency Credits: 3POLSC 614 - Constitutional Law Credits: 3POLSC 615 - The Constitution, Civil Rights and Civil Liberties Credits: 3POLSC 667 - American Political Thought Credits: 3D. Geography:

GEOG 302 - Cartography and Thematic Mapping Credits: 3
GEOG 310 - Geography of Kansas Credits: 3
GEOG 340 - Natural Resources Credits: 3
GEOG 460 - Human Dimensions of Global Change Credits: 3
GEOG 500 - Geography of the United States Credits: 3
GEOG 508 - Geographic Information Systems I Credits: 4
GEOG 535 - Fundamentals of Climatology Credits: 4
GEOG 620 - Mexico, Central America, and Caribbean Credits: 3
GEOG 640 - Geography of Europe Credits: 3
GEOG 690 - Historical Geography of the United States Credits: 3

Economics:

ECON 510 - Intermediate Macroeconomics Credits: 3
ECON 520 - Intermediate Microeconomics Credits: 3
ECON 523 - Human Resource Economics Credits: 3
ECON 530 - Money and Banking Credits: 3
ECON 536 - Comparative Economics Credits: 3
ECON 555 - Urban and Regional Economics Credits: 3
ECON 681 - International Trade Credits: 3

Sociology:

SOCIO 360 - Social Problems Credits: 3
SOCIO 440 - Social Organization Credits: 3
SOCIO 450 - Introduction to Social Interaction Credits: 3
SOCIO 507 - International Development and Social Change Credits: 3
SOCIO 431 - Comparative Social Theories Credits: 3
SOCIO 533 - Society, Food, and Agriculture Credits: 3
SOCIO 535 - Population Dynamics Credits: 3
SOCIO 541 - Wealth, Power, and Privilege Credits: 3
SOCIO 545 - The Sociology of Women Credits: 3
SOCIO 570 - Race and Ethnic Relations in the USA Credits: 3
SOCIO 618 - Religion in Culture Credits: 3

Anthropology:

ANTH 260 - Introduction to Archeology Credits: 3
ANTH 350 - Topics for Educators Credits: 1-4
~~ANTH 560 - Archaeological Fact or Fiction Credits: 3~~
ANTH 505 - South Asian Civilizations Credits: 3
~~ANTH 512 - Political Anthropology Credits: 3~~
~~ANTH 515 - Creativity and Culture Credits: 3~~
~~ANTH 568 - Topics in Archaeology Credits: 1-4~~
~~ANTH 513 - Immigrant America Credits: 3~~
ANTH 365 - Exploring Kansas Archaeology Credits: 3
ANTH 618 - Religion in Culture Credits: 3
~~ANTH 605 - North American Indians Credits: 3~~

GEOG 302 - Cartography and Thematic Mapping Credits: 3
GEOG 310 - Geography of Kansas Credits: 3
GEOG 340 - Natural Resources Credits: 3
GEOG 460 - Human Dimensions of Global Change Credits: 3
GEOG 500 - Geography of the United States Credits: 3
GEOG 508 - Geographic Information Systems I Credits: 4
GEOG 535 - Fundamentals of Climatology Credits: 4
GEOG 620 - Mexico, Central America, and Caribbean Credits: 3
GEOG 640 - Geography of Europe Credits: 3
GEOG 690 - Historical Geography of the United States Credits: 3

E. Economics:

ECON 510 - Intermediate Macroeconomics Credits: 3
ECON 520 - Intermediate Microeconomics Credits: 3
ECON 523 - Human Resource Economics Credits: 3
ECON 530 - Money and Banking Credits: 3
ECON 536 - Comparative Economics Credits: 3
ECON 555 - Urban and Regional Economics Credits: 3
ECON 681 - International Trade Credits: 3

F. Sociology:

SOCIO 360 - Social Problems Credits: 3
SOCIO 440 - Social Organization Credits: 3
SOCIO 450 - Introduction to Social Interaction Credits: 3
SOCIO 507 - International Development and Social Change Credits: 3
SOCIO 431 - Comparative Social Theories Credits: 3
SOCIO 533 - Society, Food, and Agriculture Credits: 3
SOCIO 535 - Population Dynamics Credits: 3
SOCIO 541 - Wealth, Power, and Privilege Credits: 3
SOCIO 545 - The Sociology of Women Credits: 3
SOCIO 570 - Race and Ethnic Relations in the USA Credits: 3
SOCIO 618 - Religion in Culture Credits: 3

G. Anthropology:

ANTH 260 - Introduction to Archeology Credits: 3
ANTH 305 Culture of South Asia – Credits: 3
ANTH 350 - Topics for Educators Credits: 1-4
ANTH 505 - South Asian Civilizations Credits: 3
ANTH 365 - Exploring Kansas Archaeology Credits: 3
ANTH 618 - Religion in Culture Credits: 3

Additional Teacher Education Course: 5
EDSEC 328 Social Studies Colloquium I (1)
EDSEC 428 Social Studies Colloquium II (1)
EDSEC 528 Social Studies Colloquium III (Must be taken concurrently with Block II) (3)

EDTEC Technology Teacher Licensure Program

Rationale: Revision of the program to meet 120 hours mandated by KBOR and updating of the previous curriculum.

Impact: Dr. Goodson has discussed with Dr. L. Benjamin and consent garnered. Email is an attached file.

http://catalog.k-state.edu/preview_program.php?catoid=40&poid=13229&returnto=7005

Technology Education (EDTEC) Teacher Licensure Program

Bachelor degree requirements

Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.

Licensure requirements (67 credit hours)

Core courses required:

- CMST 250 - Hardware and Network Fundamentals **Credits: 3**
- CMST 252 - System and Software Fundamentals **Credits: 3**
- CMST 103 - Computing Principles **Credits: 3**
- ECET 100 - Basic Electronics **Credits: 4**
- ~~ECET 250 - Digital Logic **Credits: 4**~~
- ECET 304 - Electric Power and Devices **Credits: 3**
- MET 252 - Fluid Power Technology **Credits: 3**
- MET 264 - Machine Design Technology I **Credits: 4**
- MET 111 - Technical Graphics **Credits: 3**
- MET 121 - Manufacturing Methods **Credits: 3**
- MET 211 - Statics **Credits: 3**
- MET 225 - Additive Manufacturing **Credits: 3**
- MET 230 - Automated Manufacturing Systems I **Credits: 3**
- MET 231 - Physical Materials and Metallurgy **Credits: 3**
- ~~ETA 292 - Problems in Engineering Technology **Credits: 1-18**~~
- ETB 492 - Advanced Problems in Engineering Technology **Credits: 1-18** (Special Topics-Energy Systems and Construction Technology)
- MATH 150 - Plane Trigonometry **Credits: 3**
- CHM 110 - General Chemistry **Credits: 3**
- PHYS 113 - General Physics I **Credits: 4**
- EDSEC 620 - Principles and Philosophy of Career and Technical Education **Credits: 2-3**
- EDSEC 621 - Program Planning in Career and Technical Education **Credits: 3**

Technology Education (EDTEC) Teacher Licensure Program

Bachelor degree requirements

Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.

Licensure requirements (60 credit hours)

Core courses required:

- CMST 250 - Hardware and Network Fundamentals **Credits: 3**
- CMST 252 - System and Software Fundamentals **Credits: 3**
- CMST 103 - Computing Principles **Credits: 3**
- ECET 100 - Basic Electronics **Credits: 4**
- ECET 304 - Electric Power and Devices **Credits: 3**
- MET 252 - Fluid Power Technology **Credits: 3**
- MET 264 - Machine Design Technology I **Credits: 4**
- MET 111 - Technical Graphics **Credits: 3**
- MET 121 - Manufacturing Methods **Credits: 3**
- MET 211 - Statics **Credits: 3**
- MET 325 - Additive Manufacturing **Credits: 3**
- MET 230 - Automated Manufacturing Systems I **Credits: 3**
- MET 231 - Physical Materials and Metallurgy **Credits: 3**
- ETB 492 - Advanced Problems in Engineering Technology (Special Topics-Energy Systems and Construction Technology) **Credits: 3**
- MATH 150 - Plane Trigonometry **Credits: 3**
- CHM 110 - General Chemistry **Credits: 3**
- PHYS 113 - General Physics I **Credits: 4**
- EDSEC 620 - Principles and Philosophy of Career and Technical Education **Credits: 2-3**
- EDSEC 621 - Program Planning in Career and Technical Education **Credits: 2-3**

Physics (EDPHY) Teacher Licensure Program

Rationale: Revision of the program to meet 120 hours mandated by KBOR and updating of the previous curriculum.

Impact Statement: Dr. Goodson has discussed with Dr. L. Benjamin and consent garnered. Email is an attached file.

http://catalog.k-state.edu/preview_program.php?catoid=40&poid=13155&returnto=7005

<p>Physics (EDPHY) Teacher Licensure Program</p> <p>Bachelor degree requirements: Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.</p> <p>Licensure requirement (65 credit hours)</p> <ul style="list-style-type: none">• <u>PHYS 122 - Physics Today I Credits: 1</u>• <u>PHYS 123 - Physics Today II Credits: 1</u>• <u>PHYS 191 - Descriptive Astronomy Credits: 3</u>• <u>PHYS 223 - Physics I, Mechanics, and Thermodynamics Credits: 5</u>• <u>PHYS 224 - Physics II, Electromagnetism, and Sound Credits: 5</u>• <u>PHYS 325 - Physics III, Relativity, and Quantum Physics Credits: 4</u>• <u>PHYS 506 - Advanced Physics Laboratory Credits: 4</u>• <u>PHYS 522 - Mechanics Credits: 4</u>• <u>PHYS 532 - Electromagnetic Fields I Credits: 4</u> <p>Supporting courses required</p> <ul style="list-style-type: none">• <u>BIOL 198 - Principles of Biology Credits: 4</u>• <u>CHM 210 - Chemistry I Credits: 4</u>• CHM 230 - Chemistry II Credits: 4• <u>EDSEC 614 - Laboratory Techniques in Teaching Science Credits: 3</u>• GEOL 103 - Geology Laboratory Credits: 1• GEOL 100 - Earth in Action Credits: 3• or• GEOL 512 - Earth Science Credits: 3• <u>MATH 220 - Analytic Geometry and Calculus I Credits: 4</u>	<p>Physics (EDPHY) Teacher Licensure Program</p> <p>Bachelor degree requirements: Students seeking this teacher licensure program must complete the bachelor degree requirements for secondary education, including the general education requirements, teacher education courses, and the teaching field requirements listed here.</p> <p>Licensure requirement (58 credit hours)</p> <ul style="list-style-type: none">• <u>PHYS 122 - Physics Today I Credits: 1</u>• <u>PHYS 123 - Physics Today II Credits: 1</u>• <u>PHYS 191 - Descriptive Astronomy Credits: 3</u>• <u>PHYS 223 - Physics I, Mechanics, and Thermodynamics Credits: 5</u>• <u>PHYS 224 - Physics II, Electromagnetism, and Sound Credits: 5</u>• <u>PHYS 325 - Physics III, Relativity, and Quantum Physics Credits: 4</u>• <u>PHYS 506 - Advanced Physics Laboratory Credits: 4</u>• <u>PHYS 522 - Mechanics Credits: 4</u>• <u>PHYS 532 - Electromagnetic Fields I Credits: 4</u> <p>Supporting courses required</p> <ul style="list-style-type: none">• <u>BIOL 198 - Principles of Biology Credits: 4</u>• <u>CHM 210 - Chemistry I Credits: 4</u>• <u>EDSEC 614 - Laboratory Techniques in Teaching Science Credits: 3</u>• <u>MATH 220 - Analytic Geometry and Calculus I Credits: 4</u>• <u>MATH 221 - Analytic Geometry and Calculus II Credits: 4</u>• <u>MATH 222 - Analytic Geometry and Calculus III Credits: 4</u>
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- MATH 221 - Analytic Geometry and Calculus II Credits: 4
- MATH 222 - Analytic Geometry and Calculus III Credits: 4
- MATH 340 - Elementary Differential Equations Credits: 4

Note: It is highly recommended that additional courses be selected to fulfill requirements for an additional teaching area in chemistry or mathematics. The course selection should be made in consultation with the science education advisor.

- MATH 340 - Elementary Differential Equations Credits: 4

Note: It is highly recommended that additional courses be selected to fulfill requirements for an additional teaching area in chemistry or mathematics. The course selection should be made in consultation with the science education advisor.