Advising Checklist  
Liberal Studies – Elementary and Middle School Licensure Program  
2014-2015

GENERAL EDUCATION
Select one course for each goal.

___ Goal 1 (1 credit): LSEM 100 (Longwood Seminar)
___ Goal 2 (3 credits): ENGL 150
___ Goal 3 (3 credits): ENGL 201, 202 or 203; FREN, GERM, or SPAN 341 or 342; SPAN 352
___ Goal 4 (3 credits): ART 121, 125, 160, 201, ENGL 315, 316, 317, 318;  
MUSC 221, 222, 224; THEA 101  
All three: MUSC 102, 103, 104 (1 cr. each) or MUSC 105, 106, 107 (1 cr. each)
___ Goal 5 (3 credits): MATH 121  
- required for the Liberal Studies major and can also count for this goal.
___ Goal 6 (4 credits): GNED 162, 261; PHYS105  
CHEM 101 (available to count in this category only for non-natural science concentrators)
___ Goal 7 (3 credits): HIST 100 or 110
___ Goal 8 (3 credits): POSC 150  
- required for the Liberal Studies major and can also count for this goal.
___ Goal 9 (3 credits): ANTH 101; GEOG 220; HIST 200, 202, 210; HLTH 210; MUSC 225;  
POSC 245, 255; RELI 242; SPAN 331
___ Goal 10 (3 credits): FREN, GERM, or SPAN 201
___ Goal 11 (2 credits): PHED 101, RECR 101
___ Goal 12 (3 credits): PHIL 308, 315, 316
___ Goal 13 (3 credits): ENGL 400 or GNED 495
___ Goal 14 - EDUC370 fulfils this goal and is counted with Professional Education Courses.
LIBERAL STUDIES MAJOR REQUIREMENTS

Students seeking licensure in both Elementary and Middle school must complete the required courses in each area and the MS concentration courses in one area.

**English:**
*Required* – 9 credits
- ENGL 380. Children’s Literature/3 cr.
- ENGL 382. Grammar: Theory and Practice/3 cr.
- ENGL 483. Writing Theory and Practice for the Elementary Classroom/3 cr.
  (for Middle School non English concentrator)
  or ENGL 479. Writing: Theory and Practice for the Middle and Secondary Classroom/3 cr.
  (for Middle School English concentrator)

**Middle School English Concentration** – 9 credits
- COMM 101. Public Speaking/3 cr.
- ENGL 350. Linguistics and Language Learning/3 cr.
- ENGL 381. Literature for Young Adults/3 cr.

**Mathematics:**
*Required* – All four courses are required except for MATH 121 for MS math concentrator. - 9 credits or 12 credits if MATH 121 is not taken for Goal #5
- MATH 121. Functions and Graphs/3 cr. (credit count for Goal #5 for non math concentrator)
  (This course is not required for students choosing Middle School concentration in Math.)
- MATH 309. Numeration Systems/3 cr.
- MATH 310. Probability, Statistics and Programming/3 cr.
- MATH 313. Geometry and Reasoning/3 cr.

**Middle School Mathematics Concentration** – 10-11 credits and exemption from Goal #5
(All courses in this category are required for math concentrator. Since math concentrators are exempt from the 3 credits of Goal #5, that essentially reduces this category from 13-14 credits to 10-11 credits in the total degree count.)
- MATH 164. Precalculus/4 cr.
  or MATH 262. Differential and Integral Calculus II/4 cr.
- MATH 261. Differential & Integral Calculus I/4 cr.
- MATH 430. Mathematics in the Middle School/3 cr.
  (can double count for the elective on the elementary track.)
- CMSC 121. Introduction to Computer Science/3cr.
  or CMSC 160. Introduction to Algorithmic Design 1/3 cr.

**Optional Algebra I Endorsement** – 3 credits
- MATH 280. Linear Algebra/ 3 cr.

**Natural Sciences:** *If you are a Natural Sciences concentrator, please see the alternative possibilities listed in the next section before enrolling in these classes.*
*Required* – 11 credits
- BIOL 114. Fundamentals of Life Science/4 cr.
- EASC 300. The Dynamic Planet/3 cr.
- PHYS 103. Conceptual Physics/4 cr. (Does not double count for Goal #6)
**Middle School Science Concentration** – 10-12 credits

**Options:** Students choosing the science concentration may substitute a science majors’ introductory-level courses for a Liberal Studies core science course. This will allow the student to meet the prerequisites to be able to take advanced courses in a particular discipline in science. (See the “focus areas” at the end of the electives section.) A substitution *(in italics)* for BIOL 114 or PHYS 103 will allow the student to meet certain prerequisites and have more flexibility in the elective section. Please plan carefully as you make your choices.

_BIOL 121. The Unity of Life/4 cr. (as prerequisite for BIOL 122 and/or BIOL focus) – Fall_  
*Instead of BIOL 114*

_PHYS 101. General Physics I/4 cr. (as prerequisite for PHYS 102 – not PHYS focus)_  
_or PHYS 201. University Physics I/4 cr. (as prerequisite for PHYS 202 and/or PHYS focus)_  
*Instead of PHYS 103*

**Concentration Requirements:**

_____ CHEM 101: General Chemistry/4 cr. *(Does not double count for Goal #6)*

_____ or CHEM 111: Fundamentals of Chemistry I/4 cr. *(as prerequisite for CHEM 112 and/or CHEM focus)* – Fall

_____ Science Elective (6-8 credits) Choose two from the following:

_____ BIOL 206. Human Anatomy and Physiology I/4 cr. – Fall

_____ BIOL 207. Human Anatomy and Physiology II/4 cr. *(prerequisite BIOL206)* – Spring

_____ BIOL/EASC 342. Terrestrial Biogeography/4 cr.

_____ BIOL 443. Field Botany/6 cr. – Summer

_____ BIOL 445. Tropical Ecology/4 cr.

_____ CHEM 112. Fundamentals of Chemistry II/4 cr. *(with CHEM 111 instead of CHEM 101)* – Spring

_____ EASC 261. Meteorology/4 cr. – Spring

_____ EASC 275. Introduction to Geographic Information Systems/4 cr.

_____ EASC 345. Hydrology/3 cr. – Fall

_____ EASC 353. Geography of Virginia/3 cr. – Rotating schedule

_____ EASC 355. Climatology/3 cr. – Spring

_____ EASC 358. Map Design and Analysis/4 cr. *(permission)* – offered infrequently

_____ EASC 363. Physical Oceanography/4 cr.

_____ EASC 410. Geomorphology/3 cr. - Fall

_____ PHYS 102. General Physics II/4 cr. *(with PHYS 101 instead of PHYS 103)* – Spring

_____ PHYS 105. General Astronomy/4 cr. *(does not double count for General Education Goal 6)*

_____ PHYS 202. University Physics II/4 cr. *(with PHYS 201 instead of PHYS 103)* – Spring

_____ SCED 330/MAED 330. Integration of Mathematics and Science Principles/3 cr.

_____ SCED 352. Science for Secondary Teachers/3 cr. – Fall

_____ SCED 401. SOLstice: An interdisciplinary approach to the science and civic issues of our Chesapeake Bay/3 cr. Summer

**Biology Focus:**

_____ BIOL 122. The Diversity of Life/4 cr. *(required for biology focus)*

One of the following:

_____ BIOL 341. General Ecology/4 cr.

_____ Any BIOL class listed in the electives above

**Chemistry Focus:**

_____ CHEM 112. Fundamentals of Chemistry II/4 cr. *(required for Chemistry focus)*

One of the following:

_____ CHEM 270. Inorganic Chemistry & Qualitative Inorganic Analysis/3 cr. – Spring

_____ CHEM 305. Organic Chemistry I/3 cr. – Fall

_____ CHEM 324. Thermodynamics/3 cr. *(math/sci. conc. with MATH262)* – Fall

_____ CHEM 350. Quantitative Analysis/4 cr. – Fall
Physics Focus:
PHYS 202. University Physics II/4 cr (for math/sci. conc. with MATH 262)  
(required for the Physics focus)
One of the following:
PHYS 252. Statics/3 cr. (for math/sci. conc.)
PHYS 303. Astrophysics/4 cr. (math/sci. conc. with MATH262) – Rotating
PHYS 321. Modern Physics/3 cr. (for math/sci. conc.) – Fall
PHYS 324. Thermodynamics/3 cr. (for math/sci. conc. with MATH262) – Fall
PHYS 326. Optics/4 cr. (for math/sci, conc.) – Rotating schedule
PHYS 331. AC/DC Circuits/4 cr. (for math/sci. conc) – Fall
PHYS 342. Electronics and Circuit Theory/ 4 cr. (for math/sci conc) – Spring

NOTE: Students may select 6-8 credits in any combination from the first part of the list or one of the focus areas.

Social Sciences:
Required. All four courses in this list are required. - 9 credits or 12 credits, if POSC 150 is not taken to meet Goal #8
- GEOG 310. Thinking Geographically/3 cr. (co-requisite with HIST370)
- HIST 221. US History Colonial Times to 1877/3 cr.
  or HIST 222. US History 1877 to Modern Times/3 cr.
- HIST 370. Virginia Studies /3 cr. (co-requisite with GEOG310)
- POSC 150. American Government and Politics (credits count for Goal #8)

Middle School Social Science Concentration – 9 credits
- HIST 100 or 110. Western Civilization (3 credits in addition to Goal 7)
  - Note: Transfer students who have had neither course must take both.)
- HIST 221. US History Colonial Times to 1877
  or HIST 222. US History 1877 to Modern Times (the one not chosen for the core above) /3 cr.
- Elective in Social Science (one from the following list) – 3 credits
  ANTH 101. Introduction to Anthropology/3 cr. (does not double count for Goal #9)
  ANTH/SOCL 325. Gender and Society/ 3 cr.
  POSC 343. American Foreign Policy/3 cr.
  POSC 350. The American Presidency/3 cr.
  SOCL 302. Sociology of Popular Culture/3 cr.
  SOCL 320. Sociology of Education /3 cr.
  Any ECON course
  Any HIST course at the 300 or 400 level

Fine Arts: 3 credits. Choose one
- ART 448. Integrated Arts – Art/3 cr.
- MUSC 448. Integrated Arts – Music/3 cr.
- THEA 448. Integrated Arts – Theater/3 cr.

Health & Kinesiology: 3 credits
- KINS 389. Methods of Teaching Health and P. E. for Elementary Classroom Teachers/3 cr.

Approved Elective: 3 credits. Choose one of the following:
Elementary track elective requirement that can be met by double counting any Middle School Concentration course at the 300-400.
  or Any Arts and Sciences course at the 300 or 400 level
or one of the following:
  Any Economics course/3 cr.
  FREN, GERM, or SPAN 202 or above/3 cr.

PROFESSIONAL EDUCATION COURSES – 14 credits

__EDUC 245. Human Growth and Development/3 cr.
__EDUC 260. Introduction to the Teaching Profession/2 cr.
__EDUC 270. Practicum One-Week/1 cr.
__EDUC 310. Foundations of Literacy Instruction/3 cr.
__EDUC 370. Practicum Three-Weeks/3 cr.
__EDUC 380. Classroom Assessment/2 cr.

NOTES:

- Students must be admitted to the Teacher Prep program before taking any 300 or 400 level EDUC classes.
- EDUC 380 & 310, and ENGL 380 are prerequisites for Partnership!

PARTNERSHIP SEMESTER – 18 credits
Middle school Partnership is offered fall only.
__EDUC 440. Field Experience in Literary Instruction/1 cr.
__EDUC 441. Elementary School Literacy Instruction (PK-6)/3 cr.
__EDUC 442. Middle School Literacy Instruction /3 cr.
__EDUC 450. Principles of Instruction (PK-8)/2 cr.
__EDUC 452. Curriculum in the Middle School (6-8)/2 cr.
__EDUC 487. Classroom Management and System Issues/3 cr.
__SPED 489. Survey of Exceptional Children/3 cr.

PROFESSIONAL SEMESTER - Student Teaching – 12 Credits

__EDUC 400: Elementary and Middle Directed Teaching/12 cr.

NOTES:

- One Practicum placement and student teaching (EDUC 400) must include grades 6-8.
- Passing scores on Praxis II, VCLA and VRA are required prior to beginning EDUC 400. These exams are required for licensure in Virginia.