Advising Checklist
Liberal Studies – Elementary and Middle School Licensure Program
2015-2016

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; PHYS 105
   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 - EDUC 370 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/3 cr.
  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.

*CHEM 101: Concentration Requirements*

- **CHEM 111**: General Chemistry/4 cr. (Does not double count for Goal #6)
  - or **CHEM 112**: Fundamentals of Chemistry I/4 cr. (as prerequisite for CHEM 112 and/or CHEM focus) – Fall

**Concentration Requirements:**

- **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
  - CHEM 112. Fund. 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 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.)
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
___ HIST 221. US History Colonial Times to 1877/3 cr.
   or HIST 222. US History 1877 to Modern Times/3 cr.
___ GEOG 310. Thinking Geographically/3 cr. (co-requisite with HIST370)
___ 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.
PROFESSIONAL EDUCATION COURSES – 14 credits

___ EDUC 245. Human Growth and Development/3 cr.
___ EDUC 261 Introduction to the teaching Profession: Practicum/3 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.