

I. CORE CURRICULUM44

CHE 1101/1110 and 1102/1120 fulfills the Science Inquiry Perspective. MAT 1110 fulfills the Quantitative Literacy.

II. PROFESSIONAL EDUCATION REQUIREMENTS 24**A minimum grade of C is required in each professional education course. CI 2300 & FDN 2400 are required prior to admission to Teacher Educ.**CI 2300 ____ (2) Teaching and Learning in the Digital Age (*Entry course to teacher education*)FDN 2400 ____ (2) Critical Perspectives on Teaching and Learning (*Pre or Co: CI 2300*) (*Entry course to teacher education*)PSY 3010 ____ (3) Psychology Applied to Teaching (*Pre or Co: CI 2300*)**PROFICIENCIES:**SPE 3300* ____ (3) Creating Inclusive Learning Communities (*Pre: CI 2300, FDN 2400, PSY 3010*)

Reading ____

C I 3400* ____ (2) Policies and Practice in Educational Assessment (*Pre: CI 2300, FDN 2400, PSY 3010*)

English ____

C I 4900 ____ (12) Student Teaching [**CAP**] (*All courses in professional core must be completed with grades of*

Speech ____

C (2.0) or higher prior to student teaching, along with other courses (including methods and reading) identified within the major.

*Admission to Teacher Education required.

NOTE: To be admitted to the Teacher Education Program students must take and satisfy testing requirements for Reading, Writing and Math areas of the PRAXIS (PPST or CBT). The PRAXIS II Area Exams are required for student teaching.**III. MAJOR REQUIREMENTS (Not including 12 s.h. already counted in I, above).....51****2.0 major GPA is required for graduation. Major GPA calculation will include all courses taken in the major department, plus any other courses under III. Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian.****A. Chemistry (32 semester hours)**

CHE 1101/1110 ____ (4) Introductory Chemistry I & Lab

CHE 1102/1120 ____ (4) Introductory Chemistry II & Lab (*Pre: CHE 1101/1110; Co: 1120*)CHE 2210 ____ (3) Quantitative Analysis (*Pre: CHE 1102/1120; Co: 2211*)CHE 2211 ____ (1) Quantitative Analysis Lab (*Co: CHE 2210*)CHE 3000 ____ (1) Introduction to Chemical Research (*Pre: CHE 2101 or 2202; 2210*)CHE 3301 ____ (3) Physical Chemistry I (*Pre: CHE 2210 & 2211; MAT 1120; PHY 1151*)CHE 3303 ____ (1) Physical Chemistry I Laboratory [**WID**] (*Co: CHE 3301; Pre: ENG 2001*)CHE 3404 ____ (3) Inorganic Chemistry (*Pre: CHE 3301*)CHE 3521 ____ (1) Secondary Science Field Experience (*Pre: Jr/Sr standing*)**Experience as a tutor through the Learning Assistance Program or the Supplemental Instruction Program is strongly recommended.****CHOOSE ONE GROUP OF 11 semester hours:**CHE 2101 ____ (3) Fundamentals of Organic Chemistry (*Pre: CHE 1102/1120; Co: 2102*)CHE 2102 ____ (1) Fundamentals of Organic Chemistry Lab (*Pre: CHE 1102/1120; Co: 2101*)

Plus 7 semester hours of chemistry courses (CHE 4580, Biochemistry I is recommended) _____

ORCHE 2201 ____ (3) Organic Chemistry I (*Pre: CHE1102/1120; Co: 2203*)CHE 2203 ____ (1) Organic Chemistry I Lab (*Pre: CHE 1102/1120; Co: 2201*)CHE 2202 ____ (3) Organic Chemistry II (*Pre: CHE 2201/2203 w/minimum grade "C-"; Co: CHE 2204*)CHE 2204 ____ (1) Organic Chemistry II Lab (*Pre: CHE 2201/2203 w/grade "C-"; Co: CHE 2202*)

Plus 3 semester hours of chemistry courses (CHE 4580, Biochemistry I is recommended) _____

B. Physics (10 semester hours)PHY 1150 ____ (5) Analytical Physics I (*Pre: MAT 1110*)PHY 1151 ____ (5) Analytical Physics II (*Pre: MAT 1120*)**C. Mathematics (8 semester hours)**MAT 1110 ____ (4) Calculus with Analytic Geometry I (*Pre: MAT 1025 w/min grade C-*)MAT 1120 ____ (4) Calculus with Analytic Geometry II (*Pre: MAT 1110 w/min grade C-*)**D. Education (5 semester hours) Minimum "C" grade is required in both these courses.**G S 4403 ____ (3) Teaching Science in Middle and High Schools [**WID**] (*Pre: ENG 2001*)

R E 4630 ____ (2) Reading in the Content Areas

E. Other Science (8 semester hours)BIO 1801 ____ (4) Biological Concepts I (*Co: CHE 1101*)

GLY 1101 ____ (4) Introduction to Physical Geology

IV. MINOR (optional)**V. ELECTIVES (taken to total 122 hours for the degree) 3****2 semester hours of free electives must be outside the major discipline.****122**