| YEAR 1-FALL (16 credits) 2024 |  | YEAR 1- SPRING (16 credits) 2025 |  |
| :---: | :---: | :---: | :---: |
| ENG 122 College Composition (LAW1*) | 3 credits | MATH 131 Calculus I (LAX1*) | 4 credits |
| MATH 185 Number Sense and Algebra ${ }^{\text {f }}$ (LAX1*) | 3 credits | MATH 283 Fundamental Mathematics III ${ }^{\text {s }}$ | 3 credits |
| CS 120 Computer Programming | 3 credits | ENG 225 Communications on a Theme (LAW2*) | 3 credits |
| Liberal Arts Curriculum ${ }^{\text {a }}$ (choose one LAA1, LAA2, LAA3, or LAA4 that is also a LAMS and/or LAIS) | 3 credits | Liberal Arts Curriculum ${ }^{\text {a }}$ (choose one LAB1, LAB2 or LAB3 that is also a LAMS and/or LAIS | 3 credits 3 credits |
| Liberal Arts Curriculum ${ }^{\text {a }}$ (LAH1*) | 3 credits | Liberal Arts Curriculum ${ }^{\text {a }}$ (LAA1, LAA2, LAA3 or LAA4*) |  |
| MATH 102 Success in Mathematical Sciences ${ }^{\text {b }}$ | 1 credit | Application for Initial Admission to PTEPC |  |
| YEAR 2-FALL (15 credits) 2025 |  | YEAR 2-SPRING (15 credits) 2026 |  |
| MATH 132 Calculus II (LAX1*) | 4 credits | MATH 391 Introduction to Number Theory ${ }^{\text {s }}$ | 3 credits |
| MATH 286 Elements of Discrete Mathematics ${ }^{\text {f }}$ | 3 credits | STAT 355 Introduction to Applied Statistics \& Probability ${ }^{\text {e,s }}$ | 3 credits |
| STEP 161 Observation and Analysis of Sec. Teaching ${ }^{\text {f }}$ | 2 credits | ECLD 341 Content-Based Literacy for Equitable Access to PK-12 Instruction | 3 credits |
| EDF 290 Foundations of Education | 3 credits | Liberal Arts Curriculum ${ }^{\text {a }}$ (LAS1*) | 3 credits |
| ECLD 260 Language Acquisition in Multilingual Societies ${ }^{\text {d }}$ | 3 credits | University-wide Elective | 3 credits |
| YEAR 3-FALL (16 credits) 2026 |  | YEAR 3- SPRING (14 credits) 2027 |  |
| MATH 386 Problem Solving ${ }^{\dagger}$ | 3 credits | MATH 317 Mathematical Foundations for Teachers ${ }^{\text {o,s }}$ | 3 credits |
| MED 449 Teaching Mathematics with Technolog e,f | 3 credits | MED 341 Principles of Teaching Mathematics ${ }^{\text {s }}$ | 3 credits |
| PSY 247 Adolescent Learning and Motivationfg (LAB3*) | 3 credits | MATH 341 Introduction to Modern Geometry ${ }^{\text {s }}$ | 3 credits |
| Liberal Arts Curriculum ${ }^{\text {a }}$ (LAS1; LAS1L*) | 4 credits | STEP 262 Observation and Analysis of Sec. Teachings | 2 credits |
| University-wide Elective | 3 credits | EDSE 360 Adaptations/Modifications \& Integration | 3 credits |
| Request for Phase II Placement ${ }^{\text {c }}$ |  | Application for Full Admission to PTEPC |  |
| YEAR 4- FALL (14 credits) 2027 |  | YEAR 4- SPRING (14 credits) 2028 |  |
| MED 441 Methods of Teaching Mathematics ${ }^{\dagger}$ | 3 credits | STEP 464 Secondary StudentTeaching | 14 credits |
| MATH 464 Introduction to History of Mathematics ${ }^{\text {o,f }}$ | 3 credits |  |  |
| STEP 363 Clinical Experience- Secondary ${ }^{\text {f }}$ | 2 credits |  |  |
| ET 449 Integrating Technologies into Sec Ed Pedagogy | 3 credits |  |  |
| University-wide Elective | 3 credits |  |  |
| Application for Student Teaching ${ }^{\text {c }}$ |  |  |  |

${ }^{\text {a }}$ Liberal Arts Core courses can be taken any semester (see Note 1 on page 2)
${ }^{\text {b }}$ You need to complete 10 credits of University-wide Electives.
${ }^{\text {c P PTEP Applications are due early in the semester; contact the Math Content Coordinator for specific dates. }}$
${ }^{d}$ Satisfies requirements for Colorado ELL Educator Preparation Standard and counts as an LAC Multicultural Studies (LAMS)
${ }^{e}$ Course is only offered in even years
${ }^{\circ}$ Course is only offered in odd years
${ }^{f}$ Course is only offered in the fall semester
${ }^{5}$ Course is only offered in the spring semester
${ }^{\text {g }}$ PSY 349 Ed. Psychology for Secondary Teachers may be substituted (does not count as an LAC)
Notes-see page 2.

Admission Requirement - See Professional Teacher Education Program (PTEP) section in current Catalog for admission requirements. Equivalent of four years of high school mathematics that will enable student to begin a study of calculus.

## Minor Required - No Minor required.

Contact Information -School of Mathematical Sciences<br>Ross Hall Room 2239, 970-351-2820<br>School Web Page:http://www.unco.edu/nhs/mathematical-sciences/


#### Abstract

This worksheet is a recommended schedule to complete your bachelor's degree in 4 years. Every UNC student must meet the following requirements to graduate with a bachelor's degree: earn a minimum of 120 semester credit hours; possess a minimum of a 2.00 cumulative grade point average; have at least 31 credit hours in courses designated as Liberal Arts Curriculum; meet all degree requirements in the student's major field of study. Each major and/or emphasis may have additional requirements necessary for graduation. Students must consult with their major advisor to receive information on any additional graduation requirements.


## Notes

1 The coursework in the Liberal Arts Curriculum (LAC) should be evenly distributed over the entire course of study rather than concentrated in the first two years. You need to complete a minimum of 31 LAC credits in Written Communication ( 6 credits), Mathematics ( 3 credits), Arts \& Humanities, History, Social \& Behavioral Sciences, U.S. Multicultural Studies, and International Studies (15 credits), and Natural \& Physical Sciences (7 credits) according to your catalog description. One writing course (ENG 122) has been pre-designated (3 credits); you must choose another writing course from LAC GT-CO2 (3 credits), but ENG 225 Communications on a Theme specifically offered for middle school/secondary majors is recommended. You are required to take a Natural \& Physical Science course with a required lab ( 4 credits) and without a lab (3 credits). PSY 247 counts as a Social \& Behavioral Sciences course (3 credits). The remaining LAC electives include: Arts \& Humanities (6 credits), History (3 credits), plus 3 additional credits from any category. In order to complete the LAC with minimum credits, six total credits must be double counted as Multicultural Studies (3 credits) and International Studies (3 credits). Example courses that count as MS course are AFS 101, GNDR 101, MUS 150, SOC 221, and SOC 237 and as IS courses are a foreign language, ANT 110, MIND 180, and PHIL 126.

2 You need to complete 10 credits of University-wide Electives. MATH 102 Success in Mathematical Sciences and EDSE 325 Behavioral Dimensions of Students with Exceptionalities I are recommended options.

3 Courses in bold are required Mathematical Science courses.

4 Courses in italics are required PTEP courses.

This program prepares students to teach mathematics, such as arithmetic, algebra, geometry, trigonometry, and mathematical analysis and application at the middle school level (grades 6-8). Graduates of this program are prepared and will be qualified for licensure to teach mathematics in grades 6-8 in the state of Colorado. The program also prepares students for graduate study in mathematics education.

| *Liberal Arts Curriculum Course Indicators |  |  |  |
| :--- | :--- | :--- | :--- |
| LAA1 | Arts \& Humanities: Arts \& Expression | LAIS | International Studies |
| LAA2 | Arts \& Humanities: Literature \& Humanities | LAMS | U.S. Multicultural Studies |
| LAA3 | Arts \& Humanities: Ways of Thinking | LAS1 | Natural \& Physical Sciences |
| LAA4 | Arts \& Humanities: World Languages | LASL | Natural \& Physical Sciences LAB |
| LAB1 | Social \& Behavior Sciences: Economic or Political Systems | LAW1 | Introductory Written Communication |
| LAB2 | Social \& Behavior Sciences: Geography | LAW2 | Intermediate Written Communication |
| LAB3 | Social \& Behavior Sciences: Human Behavior, Culture or Social Frameworks | LAW3 | Advanced Written Communication |
| LAH1 | History | LAX1 | Mathematics |

