

Central Community College and University of Nebraska Kearney

Plan of Study - Mathematics 7-12 Teaching Subject Endorsement

Catalog: 2017-2018



Date Revised: 7/6/17

| Central Community College | | | UNK | | |
|---|---|------------------|------------|--|------------------|
| Course No. | Course Title | Required Credits | Course No. | Course Title | Required Credits |
| Courses to be completed at Central Community College | | | | | |
| General Studies coursework required | | | | | |
| Foundational Core | | | | | |
| | | | | | 14 |
| Written Communication (Needs to take ENGL 1020) | | | | | |
| | | | | | 3 |
| ENGL 1010 | English Composition | 3 | ENG 101 | Introduction to Academic Writing | 3 |
| ENGL 1020 | Writing and Research | 3 | ENG 102GS | Academic Writing and Research | 3 |
| Math (Needs to take MATH 1600) | | | | | |
| | | | | | 5 |
| MATH 1150 | College Algebra | 3 | MATH 102GS | College Algebra | 3 |
| MATH 1380 | Trigonometry | 3 | MATH 103GS | Plane Trigonometry | 3 |
| MATH 1410 | Pre-Calculus | 5 | MATH 103GS | Plane Trigonometry | 3 |
| MATH 1600 | Analytic Geometry and Calculus I | 5 | MATH 115 | Calculus I with Analytic Geometry | 5 |
| MATH 2000 | Mathematics for Elementary Teachers | 3 | MATH 230GS | Math for Elementary Teachers I | 3 |
| MATH 2020 | Applied Statistics | 3 | MATH 241GS | Elementary Statistics | 3 |
| MATH 2040 | Applied Calculus | 3 | MATH 123GS | Applied Calculus | 3 |
| Oral Communication | | | | | |
| | | | | | 3 |
| SPCH 1110 | Public Speaking | 3 | SPCH 100GS | Fundamentals of Speech | 3 |
| SPCH 1400 | Oral Communication | 3 | SPCH 100GS | Fundamentals of Speech | 3 |
| Democracy in Perspective (Needs to take EDUC 1110) | | | | | |
| | | | | | 3 |
| EDUC 1110 | Introduction to Education | 3 | TE 100 | Teaching in a Democratic Society | 3 |
| HUSR 1100 | Introduction to Human and Social Services | 3 | SOWK 170GS | Introduction to Social Welfare | 3 |
| MART 1010 | Mass Media | 3 | JMC 100GS | Global Media Literacy | 3 |
| Portal Course | | | | | |
| | | | | | 3 |
| Students transferring in 24 or more hours of General Studies credit are exempt from taking the Portal, but must still complete a total of 45 hours of General Studies credit. | | | | | |
| Distribution | | | | | |
| | | | | | 27 |
| Aesthetics | | | | | |
| | | | | | 3 |
| ARTS 1010 | Introduction to the Visual Arts | 3 | ART 120GS | Art Appreciation | 3 |
| ARTS 1250 | Art Fundamentals | 3 | ART 100GS | Art Structure | 3 |
| MUSC 1010 | Introduction to Music | 3 | MUS 100GS | Introduction to Music | 3 |
| MUSC 2700 | History of Jazz | 3 | MUS 106GS | Introduction to Jazz and Blues | 3 |
| MUSC 2730 | History of Rock Music | 3 | MUS 107GS | Introduction to Rock and Blues | 3 |
| THEA 1010 | Introduction to Theatre | 3 | THEA 120GS | Introduction to the Theatre | 3 |
| Humanities (At least 6 credit hours from 2 disciplines required) | | | | | |
| | | | | | 6 |
| ENGL 2100 | Introduction to Literature | 3 | ENG 254GS | Introduction to Literature: Special Topics | 3 |
| ENGL 2340 | American Literature | 3 | ENG 251GS | Introduction to Literature: American Literature | 3 |
| ENGL 2370 | Non-Western Literature | 3 | ENG 253GS | Introduction to Literature: Non-Western Civilization | 3 |
| HIST 1000 | Western Civilization to 1700 | 3 | HIST 210GS | Western Civilization | 3 |
| HIST 1010 | Western Civilization after 1700 | 3 | HIST 211GS | Western Civilization | 3 |
| HIST 1700 | World Civilization to 1500 | 3 | HIST 210GS | Western Civilization | 3 |
| HIST 1710 | World Civilization after 1500 | 3 | HIST 211GS | Western Civilization | 3 |
| HIST 2010 | American History I | 3 | HIST 250GS | American History | 3 |
| HIST 2020 | American History II | 3 | HIST 251GS | American History | 3 |
| HIST 2150 | Introduction to Latin America | 3 | HIST 215GS | Introduction to Latin America | 3 |
| PHIL 1010 | Introduction to Philosophy | 3 | PHIL 100GS | Introduction to Philosophy | 3 |
| SPAN 2010 | Intermediate Spanish I | 3 | SPAN 200GS | Intermediate Spanish I | 3 |
| SPAN 2020 | Intermediate Spanish II | 3 | SPAN 201GS | Intermediate Spanish II | 3 |
| Social Sciences (Needs to take POLS 1000) | | | | | |
| | | | | | 6 |
| ANTH 1100 | Introduction to Anthropology | 3 | SOC 250GS | Anthropology | 3 |
| CRIM 1010 | Introduction to Criminal Justice | 3 | CJUS 101GS | Introduction to Criminal Justice | 3 |
| ECON 1100 | Economic Understanding | 3 | ECON 100GS | Contemporary Economic Issues | 3 |
| ECON 2110 | Principles of Macroeconomics | 3 | ECON 270GS | Principles of Economics, Macroeconomics | 3 |
| ECON 2120 | Principles of Microeconomics | 3 | ECON 271GS | Principles of Economics, Microeconomics | 3 |
| GEOG 1400 | Cultural Geography | 3 | GEOG 106GS | Human Geography | 3 |
| HUMS 2200 | Introduction to Women's Studies | 3 | WSTD 220GS | Women's and Gender Studies | 3 |
| POLS 1000 | American Government | 3 | PSCI 110GS | Introduction to American Politics | 3 |
| POLS 1600 | International Relations | 3 | PSCI 168GS | Introduction to International Relations | 3 |
| PSYC 1010 | Psychology of Family | 3 | FSID 351GS | Marriage and Family Relationships | 3 |

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| Course No. | Course Title | Required Credits | Course No. | Course Title | Required Credits |
| PSYC 1810 | Introduction to Psychology | 3 | PSY 203GS | General Psychology | 3 |
| PSYC 2890 | Developmental Psychology | 3 | PSY 230GS | Human Development | 3 |
| SOCI 1010 | Introduction to Sociology | 3 | SOC 100GS | Introduction to Sociology | 3 |
| SOIC 2150 | Issues of Unity and Diversity | 3 | ETHS 101GS | Introduction to Ethnic Studies | 3 |
| SOCI 2160 | Marriage and Family | 3 | FSID 351GS | Marriage and Family Relationships | 3 |
| Natural Sciences (Needs to take PHYS 2110) | | | | | 8 |
| BIOS 1010 | General Biology | 4 | BIOL 103GS | General Biology | 4 |
| BIOS 1090 | General Botany | 4 | BIOL 105GS | Biology I | 4 |
| BIOS 1120 | Principles of Zoology | 4 | BIOL 106GS | Biology II | 4 |
| BIOS 2490 | Principles of Microbiology | 4 | BIOL 211GS | Human Microbiology | 4 |
| CHEM 1050 | Elements of Chemistry | 4 | CHEM 145GS | Introductory Chemistry | 4 |
| CHEM 1060 | Basics of Organic Chemistry | 4 | CHEM 150GS | Introduction to Organic and Biochemistry | 4 |
| CHEM 1090 | General Chemistry | 4 | CHEM 160GS | General Chemistry | 3 |
| | | | CHEM 160LGS | General Chemistry Laboratory | 1 |
| CHEM 1100 | General Chemistry II | 4 | CHEM 161GS | General Chemistry | 3 |
| | | | CHEM 161LGS | General Chemistry Laboratory | 1 |
| PHYS 1500 | Introduction to Physical Geography with Lab | 4 | GEOG 102GS | Physical Geography II: The Lithosphere | 4 |
| BIOS 1060 | Environmental Science | 3 | PHYS 201GS | Earth Science | 4 |
| BIOS 1070 | Environmental Science Lab | 1 | | | |
| PHYS 1010 | Earth Science | 3 | PHYS 201GS | Earth Science | 4 |
| PHYS 1100 | Physical Science | 4 | PHYS 100GS | Physical Science | 3 |
| | | | PHYS 100LGS | Physical Science Laboratory | 1 |
| PHYS 1410 | General Physics I | 5 | PHYS 205GS | General Physics I | 4 |
| | | | PHYS 205LGS | Physics I Laboratory | 1 |
| PHYS 1420 | General Physics II | 5 | PHYS 206GS | General Physics II | 4 |
| | | | PHYS 206LGS | Physics II Laboratory | 1 |
| PHYS 2010 | Meteorology: Intro to Atmosphere | 4 | PHYS 209GS | Meteorology | 3 |
| PHYS 2110 | General Physics I with Calculus | 5 | PHYS 275GS | General Physics I (Calculus) | 4 |
| | | | PHYS 275LGS | General Physics I (Calculus) Laboratory | 1 |
| PHYS 2120 | General Physics II with Calculus | 5 | PHYS 276GS | General Physics II (Calculus) | 4 |
| | | | PHYS 276LGS | General Physics II (Calculus) Laboratory | 1 |
| Analytical and Quantitative Thought (Needs to take INFO 1800, INFO 2820 or INFO 2830) | | | | | 3 |
| MATH 2020 | Applied Statistics | 3 | MGT 233GS | Business Statistics | 3 |
| BSAD 2020 | Business Statistics | 3 | MGT 233GS | Business Statistics | 3 |
| BTEC 1110 | Computer and Internet Literacy | 3 | CSIT 108GS | Computers in Society | 3 |
| BTEC 1710 | Word Specialist | 2 | CSIT 1001GS | Computing Environments: Word Processing | 3 |
| BTEC 2310 | Microsoft Excel Specialist Certification Preparation | 1 | | | |
| BTEC 1720 | Excel Specialist | 2 | CSIT 1002GS | Computing Environments: Spreadsheet | 3 |
| BTEC 2320 | Microsoft Excel Specialist Certification Preparation | 1 | | | |
| BTEC 1740 | Access Specialist | 2 | CSIT 1003GS | Computing Environments: Date Base | 3 |
| BTEC 2340 | Microsoft Access Specialist Certification Preparation | 1 | | | |
| INFO 1100 | Introduction to Information Technology and Systems | 3 | ITEC 150GS | Internetworking Literacy | 3 |
| INFO 1120 | Microcomputer Applications | 3 | MIS 182GS | Software Productivity Tools | 3 |
| INFO 1210 | Spreadsheets | 3 | CSIT 1002GS | Computing Environments: Spreadsheet | 3 |
| INFO 1380 | Technology in Society | 3 | CSIT 108GS | Computers in Society | 3 |
| INFO 1670 | IT Essentials | 3 | ITEC 150GS | Internetworking Literacy | 3 |
| INFO 1700 | Database Concepts and Design | 3 | CSIT 1003GS | Computing Environments: Date Base | 3 |
| INFO 1800 | Visual Basic Programming | 3 | CSIT 111GS | Applied Computer Programming | 3 |
| INFO 2820 | JAVA Programing | 3 | CSIT 130GS | Introduction to Computer Science | 4 |
| INFO 2830 | C# Programming | 3 | CSIT 111GS | Applied Computer Programming | 3 |
| MUSC 1470 | Music Theory I | 3 | MUS 200GS | Theory I | 3 |
| Wellness (Needs to take PHED 1400) | | | | | 3 |
| NUTR 1470 | Nutrition | 3 | FSID 110GS | Introduction to Nutrition | 3 |
| BSAD 1010 | Consumer Problems | 3 | FSID 160GS | Personal Money Management | 3 |
| PSYC 2860 | Abnormal Psychology | 3 | PSY 231GS | Abnormal Behavior and Society | 3 |
| PHED 1050 | Physical Education-Walking and Jogging | 3 | PE 110GS | Basic Sports | 3 |
| PHED 1400 | Personal Health | 3 | PE 150GS | Healthy, Wealthy and Wise | 3 |
| Capstone | | | | | |
| Transfer students must take this course at UNK | | | | | |
| Professional Sequence | | | | | |
| EDUC 1700 | Professional Practicum | 2 | | Learning Service Project | |
| EDUC 2590 | Instructional Technology for Teachers | 3 | TE 206 | Instructional Technology and the Preservice Teacher | 3 |
| Unrestricted Electives (these can be any kind of courses) | | | | | 3 |

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| Course No. | Course Title | Required Credits | Course No. | Course Title | Required Credits |
| Math Field Endorsement Requirements | | | | | |
| MATH 2070 | Analytic Geometry and Calculus 2 | 5 | MATH 202 | Calculus 2 with Analytic Geometry | 5 |
| MATH 2080 | Analytic Geometry and Calculus 3 | 5 | MATH 260 | Calculus 3 | 5 |