

LINE 2520
Lineman Substation Apprentice 4A
 6:6:0 **On Sufficient Demand**
 • Prerequisite(s): Departmental written approval
 Teaches SF6 gas properties and handling, current transformer testing 1 and 2, vacuum bottle hi-pot testing, infrared conditioning monitoring, corona discharge testing. Covers multimeter operation and use, instrument transformers, reactive metering concepts, SCADA-system protection and monitoring (Provo), and cable terminations.

LINE 2530
Lineman Substation Apprentice 4B
 6:6:0 **On Sufficient Demand**
 • Prerequisite(s): Departmental written approval
 Teaches safety in transmission and distribution maintenance, safety in substation and switchyards continued, transformers 1, use of electrical test equipment, distribution line safety, power transformer turns ratio testing, power transformer temperature indicating testing, oil reconditions. Covers relays 1 and 2 continued, capacitors and reactors continued, new circuit breakers inspections and tests continued.

LINE 2600
Meter Apprentice 3A
 6:6:0 **On Sufficient Demand**
 • Prerequisite(s): LINE 1630 or departmental written approval
 For meter apprentices. Teaches self contained polyphase meter testing, polyphase transformer rated application. Covers demand metering concepts.

LINE 2610
Meter Apprentice 3B
 6:6:0 **On Sufficient Demand**
 • Prerequisite(s): LINE 2600 or departmental written approval
 For meter apprentices. Teaches testing and calibrating demand meters, meter mounting devices and test switches. Covers reactive metering and reactive meter testing.

LINE 2620
Meter Apprentice 4A
 6:6:0 **On Sufficient Demand**
 • Prerequisite(s): LINE 2610 or departmental written approval
 For meter apprentices. Teaches totalizing meters, installation checks and inspections. Covers solid state meters and associated devices. Teaches customer relations.

LINE 2630
Meter Apprentice 4B
 6:6:0 **On Sufficient Demand**
 • Prerequisite(s): LINE 2620 or departmental written approval
 For meter apprentices. Teaches energy diversion, trouble shooting techniques, and pulse initiators and recorders. Covers electronic metering, register programming and computers.

LINE 281R
Cooperative Work Experience
 1 to 8:0:5 to 40 **Su, F, Sp**
 • Corequisite(s): LINE 285R
 Provides paid, on-the-job work experience in the student's major. Work experience, the related class, and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer and coordinator evaluations, on-site work visits, written

assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance.

LINE 285R
Cooperative Correlated Class
 1:1:0 **Su, F, Sp**
 • Corequisite(s): LINE 281R
 Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with the approval of the Cooperative Coordinator. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentations and written assignments. Completers should be better able to perform in their field of work or study.

MAT—MATHEMATICS - DEVELOPMENTAL

MAT 0800
Math Fundamentals
 3:3:0 **Su, F, Sp**
 • Prerequisite(s): Appropriate test scores
 Reviews whole number operations and covers fractions, prime factorization, greatest common factors, and least common multiples. Covers basic operations involving decimals, percents, ratios, and proportions. Includes the basic operations involving measurement and geometry. Introduces basic algebraic operations.

MAT 090R
Individualized Mathematics Review
 1 to 3:1 to 3:0 **On Sufficient Demand**
 • Prerequisite(s): Appropriate test scores
 For students placing into MAT 0950 or MAT 0990. Includes diagnostic test of student's mathematical knowledge base. Develops individualized study plan, including number of credit hours recommended to complete. Course offered credit/no credit. May be repeated once for a maximum of 5 credits.

MAT 0950
Foundations for Algebra
 5:5:0 **Su, F, Sp**
 • Prerequisite(s): One of the following: Appropriate test scores taken within the last two years or MAT 0800 with a grade of C- or better completed within the last two years.
 Designed for students requiring basic math and pre algebra instruction. Covers basic operations for number systems up to and including real numbers. Includes fractions, ratios, proportions, decimals, exponents, roots, linear equations, and polynomial expressions. A preparatory course for MAT 0990, Introductory Algebra.

MAT 0960
Special Topics in Math--Nursing
 2:2:0 **On Sufficient Demand**
 • Prerequisite(s): Completion of MAT 0800 (C- or better) or appropriate test scores
 Prepares students to successfully perform calculations of dimensional analysis required in administering medications. Includes Properties of Real Numbers, Prime factorization, operations with whole numbers, fractions, and decimals,

rounding, ratios, proportions, percents systems of measurements, reading and interpreting measurement data on labels and orders, problems-solving strategies, and dimensional analysis.

MAT 0980
Integrated Pre-Algebra and Beginning Algebra
 5:5:0 **Su, F, Sp**
 • Prerequisite(s): Appropriate test scores that are no more than two (2) years old
 An accelerated preparatory class for MAT 1010, Intermediate Algebra, covering Pre-Algebra and Beginning Algebra in one semester. Topics of study include real numbers, algebraic expressions, polynomials, solving and graphing linear equations and inequalities, factoring, quadratic equations, rational expressions and equations, ratios, percents, systems of linear equations, roots and radicals, and an introduction to complex numbers.

MAT 0990
Introductory Algebra
 4:4:0 **Su, F, Sp**
 • Prerequisite(s): One of the following: MAT 0950 or MAT 0980 with a grade of C- or better and taken within the last two years; or appropriate math placement test scores that are no more than two (2) years old

For students who have completed a minimum of one year of high school algebra or who lack a thorough understanding of basic algebra principles. Teaches integers, solving equations, polynomial operations, factoring polynomials, systems of equations and graphs, rational expressions, roots, radicals, complex numbers, quadratic equations and the quadratic formula. Prepares students for MAT 1010, Intermediate Algebra.

MAT 1000 **GM**
Integrated Beginning and Intermediate Algebra
 5:5:0 **Su, F, Sp**
 • Prerequisite(s): One of the following: MAT 0950 with a grade of B or better and taken within the last two years or MAT 0980 with a C- or better and taken within the last two years ; or appropriate math placement test scores that are no more than two (2) years old

Teaches Beginning and Intermediate Algebra in one semester. Includes linear, quadratic, and rational expressions, equations, and functions; systems of equations; logarithms; exponents; graphing; and problem solving. Prepares students for MATH 1030, 1040, and 1050.

MAT 1010 **GM**
Intermediate Algebra
 4:4:0 **Su, F, Sp**
 • Prerequisite(s): One of the following: MAT 0980 or MAT 0990 with a grade of C- or better and taken within the last two years; or appropriate math placement test scores that are no more than two (2) years old

Expands and covers in more depth basic algebra concepts introduced in Beginning Algebra. Topics of study include linear and quadratic equations and inequalities, polynomials and rational expressions, radical and exponential expressions and equations, complex numbers, systems of linear and nonlinear equations, functions, conic sections, and real world applications of algebra.