

CATALOG

2025-2026



This publication includes changes and corrections to the 2025-2026 Rend Lake College Catalog.

ADDENDUM

MATH 1111 – Statistics (4) (3)

Prerequisite: Qualifying placement scores MATH 1403, 1407, or 1409 with a "C" or better

A course recommended for students in such areas as math, science, economics, education and business. Topics include the language and process of statistics; descriptive methods using quantitative, qualitative and bivariate data; linear correlation and regression; fundamentals of probability; probability distributions, including binomial, normal and chi-square distribution; confidence intervals; and hypothesis testing using P-values and statistical software. ~~Traditional and online format.~~ Lecture 4 3 hours. □ IAI ~ M1 902

UPDATES TO PREREQUISITES AND COURSE EQUIVALENCIES TO WELDING COURSES (EFFECTIVE 1/1/25)

WELD 1202 – Structural Shielded Metal Arc Welding (SMAW) (1)

Prerequisite: WELD 1201 or WELD 1270

This course is designed to give the student an overview of the shielded metal arc welding processes used in general industry, construction, and fabrication industries. In addition, concentrated instruction in the use of different welding electrodes, electrode identification, electrode storage and basic welding symbols will be provided. Practical applications of AC/DC theory in the area of fillet joints in the vertical up and overhead positions will be included. Lecture 0.5 hours. Lab 1 hours.

WELD 1203 – Gas Metal Arc Welding (GMAW) (1)

Prerequisite: WELD 1201 or WELD 1270

This course is designed to give the student an overview of Gas Metal and Gas Tungsten Arc Welding processes used in general industry, construction, and fabrication industries with a concentration in auto body and production manufacturing processes where light gauge metals are used. The ability of GMAW and GTAW processes to weld nonferrous materials with high quality results will be stressed. Lecture 0.5 hours. Lab 1 hours.

WELD 1204 – Gas Tungsten Arc Welding (Gtaw) (1)

Prerequisite: WELD 1201 or WELD 1270

This course provides the student with a thorough knowledge of gas tungsten arc welding fundamentals, arc characteristics and welding safety. The course will include lecture and lab activities on the welding characteristics of carbon steel, stainless steel and aluminum. Lecture 0.5 hours. Lab 1 hours.

WELD 1205 – SMAW II (1)

Prerequisite: WELD 1201 or consent of instructor Prerequisite: WELD 1202

Concentrated instruction in using different welding electrodes, electrode identification, and basic welding symbols. The course provides practical applications of AC/DC theory in fillet welds in the horizontal position. Students will be required to demonstrate course competencies through multiple assessments that simulate AWS code that is expected within the industry. Lecture 0.5 hours. Lab 1 hours.

WELD 1207 – SMAW IV (1)

Prerequisite: WELD 1202 or consent of instructor Prerequisite: WELD 1206

Concentrated instruction in using different welding electrodes, electrode identification, and basic welding symbols. The course provides practical applications of AC/DC theory in the area of fillet joints in the overhead position. Students must demonstrate course competencies through multiple assessments that simulate AWS code expected within the industry. Lecture 0.5 hours. Lab 1 hours.

WELD 1270 – Introduction to Welding Processes (4)

Equivalent to WELD 1201, WELD 1202, WELD 1203, and WELD 1204

This course is designed to give the student an overview of the various metal-joining processes used in general industry, construction and fabrication industries. Processes include shielded metal arc welding, gas metal arc welding, oxy-acetylene welding and brazing and gas tungsten arc welding. Lecture 2 hours. Lab 4 hours.

WELD 1272 – Structural Shielded Metal Arc Welding (4)

Prerequisite: WELD 1270 or concurrent enrollment

Equivalent to WELD 1205, WELD 1206, WELD 1207, and WELD 1208

Concentrated instruction in the use of different welding electrodes, electrode identification, electrode storage and basic welding symbols. The course provides practical applications of AC/DC theory in the area of fillet joints in the vertical up and overhead positions. Lecture 2 hours. Lab 4 hours.

WELD 2275 – Advanced Shielded Metal Arc Welding (2)

Prerequisite: WELD 1272 or consent of the instructor Prerequisite: WELD 1272 or WELD 1208

This course is designed to familiarize the student with welding procedures as stipulated by American Welding Society (AWS) D1.1 structural code for qualifications, testing and standards. Lecture .5 hour. Lab 3 hours.

WELD 1282 – GMAW / GTAW Welding (4)

Equivalent to WELD 1209, WELD 1210, WELD 1211, and WELD 1212

Introduces Gas Metal and Gas Tungsten Arc Welding for use in auto body and production manufacturing processes where light gauge metals are used. The ability of GMAW and GTAW processes to weld nonferrous materials with high quality results will be stressed. Lecture 2 hours. Lab 4 hours.

NEW COURSES

(EFFECTIVE 1/1/2025)

NURS 2202 NCLEX-RN Prep Course (2)

A nursing alumnus who graduates from Rend Lake College's Associate Degree in Nursing Program and the graduate has not taken the NCLEX-RN in 180 days after the degree was conferred by the institution or has failed the NCLEX-RN for a second time is offered the prep course.

This NCLEX-RN prep course is a comprehensive review of the nursing content covered in Rend Lake College's Associate Degree in Nursing Program needed to take the NCLEX-RN. This course reviews knowledge, skills, concepts, and attitudes essential for the safe and effective nursing practice at entry level for the registered nurse. Lecture 2 hours.