

PSYC-280 Cooperative Education 1-9 cr.
A planned instructional program designed to enhance the student's learning experience by coordinating actual on-the-job training related to his/her curriculum with classroom work. The student will be evaluated jointly by the College personnel and employer. Prerequisite: PSYC 120. Semester offered: On Demand.

PSYC-286 Cognitive Psychology 3 cr.
Study of cognitive abilities such as attention, memory, problem solving comprehension, categorization and reasoning. The mental processes are also discussed in terms of encoding, retrieval and storage of information. Prerequisites: PSYC 120, ENGL 111, RDNG 113 or APRD 081+. Semester offered: Spring.

READING

RDNG-050 Reading Fundamentals 3 cr.
Build basic reading skills, with emphasis on comprehension and vocabulary. The course is offered for letter grade. Course not applicable towards any degree or certificate. Semester offered: Fall, Spring. Prerequisites: Accuplacer reading score 0-38. (RR option course)

RDNG-095 Critical Reading 3 cr.
Develop critical reading skills for academic and life-long learning, using a variety of sources. Course not applicable towards degree. (RR option course). Prerequisites: Accuplacer reading score of 39-57 or successful completion of Reading 050 (B or better). Semester offered: Fall, Spring, and Summer.

RDNG-110 College Level Vocabulary Skills 2 cr.
An intensive course in vocabulary development centered around the needs for college level study. (RR option course). Semester offered: Fall and Spring.

RDNG-113 Academic Reading and Study 3 cr.
Develop academic reading and study skills for college, using academic textbook material. Prerequisites: Accuplacer Reading score of 58-80 or successful completion of Reading 095 (C or better). Semester offered: Fall, Spring, and Summer.

RDNG-114 Speed Reading 2 cr.
Improvement of reading efficiency in rate and comprehension. Graded S/U. Semester offered: Spring.

RDNG-240 Reading Diagnosis 1 cr.
Informal and formal diagnostic procedures as a means of determining the specific needs of individuals. Semester offered: On Demand.

RDNG-241 Reading Materials/Utilization 1 cr.
Selection and utilization of reading materials appropriate to the needs and interests of students. Semester offered: On Demand.

RDNG-251 Reading Processes/Methods for Elementary School 4 cr.
Instructional approaches to teaching reading skills at the elementary level. Semester offered: On Demand.

RDNG-252 Diagnostic Teaching Reading in Elementary School 3 cr.
Theoretical and practical aspects of diagnostic teaching of reading. Semester offered: On Demand.

RDNG-256 Reading in the Content Fields 3 cr.
An in-depth study of reading and study skills. The structures of the different disciplines studied in all grades. Semester offered: On Demand.

RENEWABLE ENERGY

RENG-220 PV Theory and System Design 4 cr.
Photovoltaic energy conversion theory is introduced. DC electrical energy production is covered along with photovoltaic module interconnection to meet electrical loads. Inverter technology is discussed, as well as storage system sizing, charge controller operation, and connectivity with the utility grid. Spreadsheet models are developed throughout the course. Prerequisites: INST 144, RENG 250. Semester Offered: Spring.

RENG-242 PV Installation and the NEC I 3 cr.
This hands-on course will cover the National Electrical Code specifics concerning photovoltaic installation - articles 90 to 400. Also code compliant wiring of basic electrical systems will be covered. Existing installations will be visited and studied. Corequisites: RENG-242L, INST-144. Semester offered: Fall.

RENG-242L PV Installation and NEC I Lab 2 cr.
First in a two-semester lab sequence. Corequisite: RENG-242. Semester offered: Fall.

RENG-243 PV Installation and the NEC II 3 cr.
This hands-on course will cover the National Electrical Code specifics concerning photovoltaic installation - article 690. Code compliant wiring of modules, inverters, charge controllers, and batteries will be explored in detail. Existing photovoltaic systems will be visited and studied. Corequisite: RENG-243L. Prerequisites: RENG-242, RENG-242L, INST-144. Semester offered: Spring.

RENG-243L PV Installation and the NEC II Lab 2 cr.
The second in a two-semester lab sequence. Corequisite: RENG-243. Semester offered: Spring.

RENG-250 Passive Solar Design and Analysis 3 cr.
Starts with an overview of various aspects of energy production, consumption, quantification, efficiency, and conservation. Quantification of incident solar energy is covered in detail along with basic physics of energy conversion. Building energy analysis, emphasizing passive solar design, will involve building spreadsheets and using modeling software. Prerequisites: PHYS-111, COSC-116. Semester offered: Fall.

RENG-260 Solar Thermal Design and Application 3 cr.
Starts with an overview of various solar thermal system designs for domestic water and space heating. Quantification of non-concentrating collector output is covered in detail, and used in development of spreadsheet models. Installation, start-up, and troubleshooting are discussed. Concentrating power plant basics are covered. Prerequisite: RENG-250. Semester offered: Spring.

RENG-270 Sustainable Development 3 cr.
This course investigates the practical applications of sustainable living. It includes hands-on experiential techniques along with a base of philosophy to support this systems theory approach to life. Semester Offered: Spring.