COURSE OFFERINGS

GAVILAN COLLEGE CATALOG 2011-2013

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DRYWALL-LATHING

DRLT 200  Introduction to the Trade
Units: 2.0  Hours: 36.0 Lecture
Transferable: No
This course is an introduction to drywall/lathing apprenticeship, state and federal apprenticeship laws, apprenticeship record keeping, apprentice evaluation procedures, general safety, work ethic, sexual harassment issues, and basic tools of the trade.

DRLT 202  Basic Applications
Units: 1.5  Hours: 21.0 Lecture and 18.0 Laboratory
Transferable: No
This course is an introduction to basic gypsum wall covering and ceiling applications. Topics include knot recognition and application to rigging on construction jobsites.

DRLT 205  Mathematics for Drywall/Lathing
Units: 2.0  Hours: 36.0 Lecture
Transferable: No
This course covers mathematics applications to drywall and lathing trades with specific focus on mathematical processes related to construction. Basic topics include whole numbers, fractions, decimal fractions, ratios, proportions, percentages, areas and volumes. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit.

DRLT 210  Residential Metal Framing
Units: 1.5  Hours: 21.0 Lecture and 18.0 Laboratory
Transferable: No
This course covers basic residential metal framing. It includes framing of floors, walls, doors, windows, roofs, trusses and stairs. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit.

DRLT 212  Doors, Windows, Exterior Systems/Building Documents
Units: 1.5  Hours: 21.0 Lecture and 18.0 Laboratory
Transferable: No
This course covers doors, windows, door and window framing, and exterior wall covering systems. Topics include an introduction to blueprints and building codes. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit.

DRLT 220  Blueprint Reading I
Units: 1.5  Hours: 21.0 Lecture and 18.0 Laboratory
Transferable: No
This course covers job specifications, blueprint structure and basic blueprint reading and interpretation. Topics include an introduction to construction drawings and sketching. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit.

DRLT 221  Blueprint Reading II
Units: 1.5  Hours: 21.0 Lecture and 18.0 Laboratory
Transferable: No
This course is a continuation of Blueprint Reading I (DRLT 200). Topics include interpretation, problem solving, correlating specifications, prints, addenda, notes, sections and mathematics used with blueprints. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit.

DRLT 222  Blueprint Reading III
Units: 1.5  Hours: 21.0 Lecture and 18.0 Laboratory
Transferable: No
This course is a continuation of Blueprint Reading II (DRLT 221). Topics include take-offs, material estimates, material requisition, job costs and layout from blueprints. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit.

DRLT 230  Welding I
Units: 1.5  Hours: 21.0 Lecture and 18.0 Laboratory
Transferable: No
This course covers welding and welding concepts for construction job sites. Topics include welding safety, basic welding terms, definitions, positions, and cutting operations. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit.

DRLT 231  Welding II
Units: 1.5  Hours: 21.0 Lecture and 18.0 Laboratory
Transferable: No
This course is a continuation of Welding I (DRLT 230). Topics include welding safety, concepts, process, symbols, and certification performance. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit.

DRLT 240  Exterior/Advanced Fire Control System and Partitions
Units: 1.5  Hours: 21.0 Lecture and 18.0 Laboratory
Transferable: No
This course covers safety, principles, theory, and application of advanced fire control systems. Topics include principles and applications of partitions and metal framing. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit.

DRLT 242  Exterior Systems and Trims
Units: 1.5  Hours: 21.0 Lecture and 18.0 Laboratory
Transferable: No
This course covers safety, principles, and application of exterior wall framing, coverings, and trims. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit.

DRLT 250  Interior Metal Lathing System and Sound Control
Units: 1.5  Hours: 21.0 Lecture and 18.0 Laboratory
Transferable: No
This course covers materials, principles, theory, and application of lath and plaster interior hollow walls and partitions. Topics include principles, and application of sound control systems and an introduction to mathematics and layout for building arches. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit.

DRLT 260  Ceilings, Shaft Protection and Demountable Partitions
Units: 1.5  Hours: 21.0 Lecture and 18.0 Laboratory
Transferable: No
This course covers safety, materials, principles, theory, and installation of ceiling systems, demountable partitions, and shaft systems. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit.

DRLT 262  Arches, Furring and Advanced Systems
Units: 1.5  Hours: 21.0 Lecture and 18.0 Laboratory
Transferable: No
This course covers safety, materials, principles, theory, and installation of furring, arch systems, and fire retardant materials. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit.

DRLT 270  Advanced Construction Techniques
Units: 1.5  Hours: 21.0 Lecture and 18.0 Laboratory
Transferable: No
This course covers safety, materials, principles and theory of advanced construction techniques. Topics include following written and verbal directions, construction directly from blueprints, and research techniques. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit.
DRLT 290  Occupational Work Experience/Drywall-Lathing  
Units: 1.0 TO 4.0  Hours: 5.0 TO 20.0 Laboratory  
Transferable: No  
Occupational work experience for students who have a job related to their major. A training plan is developed cooperatively between the employer, college and student. (P/NP grading) 75 hours per semester paid work = 1 unit. 60 hours non-paid (volunteer) work per semester = 1 unit. May be taken for a maximum total of 16 units. Minimum 2.00 GPA. REQUIRED: Declared vocational major.

ECON 14  Personal Finance  
Units: 3.0  Hours: 3.0 Lecture  
Transferable: CSU  
This course is designed to assist individuals to analyze their financial affairs for lifelong decision making. Elements and concepts of financial planning and decision making in the areas of budgeting, taxes, borrowing, money management, insurance, investments, retirement, and estate planning will be examined. This course is also listed as BUS 11. This course has the option of a letter grade or pass/no pass. ADVISORY: Math 400

ECON 10  Fundamentals of Economics  
Units: 3.0  Hours: 3.0 Lecture  
Transferable: CSU, UC; CSU-GE:B4, IGETC:2A; GAV-GE:B4  
A survey of economic concepts and systems. Topics to be covered include production and consumption, pricing and competition, economic growth, inflation, employment, money and banking, and international trade. Not open to students with credit in Economics 1. This course has the option of a letter grade or pass/no pass. ADVISORY: Eligible for English 250, English 260 and Mathematics 233.

ECON 11  Statistics for Business and Economics  
Units: 4.0  Hours: 4.0 Lecture  
Transferable: CSU, UC; CSU-GE:B4, IGETC:2A; GAV-GE:B4  
Statistical methods for business/economics analysis; descriptive statistics, inference, correlation and regression, probability, time series analysis. This course has the option of a letter grade or pass/no pass. This course is also listed as BUS 11. PREREQUISITE: Mathematics 233.

ECON 1 Principles of Macroeconomics  
Units: 3.0  Hours: 3.0 Lecture  
Introduction to the principles of macroeconomics, social organization of the economy; supply and demand; the determinants of national income and production, economic growth, the global economy and trade, employment, prices, savings and investment; the nature and effectiveness of monetary and fiscal policy. This course has the option of a letter grade or pass/no pass. ADVISORY: Eligible for English 250 and English 260.

ECOL 1 Conservation of Natural Resources  
Units: 4.0  Hours: 3.0 Lecture and 3.0 Laboratory  
Transferable: CSU, UC; CSU-GE:B2, B3, IGETC:5B; GAV-GE:B2, B3  
This course examines the fundamentals of ecology (the study of the relationships between organisms and their environment) with special emphasis on human effects on the environment. Topics of discussion will include ecosystem dynamics, resources, pollution, population growth, and the clash between economic and political policy and the environment. ADVISORY: Eligible for English 250 and English 260.

ENGR 1 Engineering Graphics  
Units: 3.0  Hours: 2.0 Lecture and 3.0 Laboratory  
Transferable: CSU, UC; CAN:ENGR2  
An introduction to the graphical and visual communication of the engineering design process. Topics will include the design process, visualization, free-hand sketching, orthographic projection, multi views, auxiliary views, section views, dimensioning and tolerances. Computer-aided-drafting (CAD) software will be used extensively in conjunction with traditional methods to highlight the strengths of multiple communication methodologies. ADVISORY: Eligible for English 250 and English 260; Mathematics 1A - may be concurrent, and CSIS 10 - May be concurrent.

ENGR 2 Statics  
Units: 3.0  Hours: 3.0 Lecture  
Transferable: CSU, UC; CAN:ENGR8  
Vector statics. Force, moment, couple, system isolation, adequacy of constraint, concentrated and distributed loads, fluid statics, flexible cables, friction and virtual work. Bridge design project. PREREQUISITE: Mathematics 1A and Mathematics 1B and Physics 4A with a grade of "C" or better.

ENGR 3 Electrical Circuits/Devices and Systems  
Units: 3.0  Hours: 3.0 Lecture  
Transferable: CSU, UC; CAN:ENGR12  
Natural, forced, and steady-state response by impedance, exponential, pole-zero and phasor methods; solid state; digital circuits and laplace transform methods are introduced. PREREQUISITE: Mathematics 1A with a grade of "C" or better. May be taken concurrently. ADVISORY: Physics 4B with a grade of "C" or better and Mathematics 2C.

ENGR 4 Properties Of Materials  
Units: 3.0  Hours: 3.0 Lecture  
Transferable: CSU, UC; CAN:ENGR4  
Basic principles of physics and chemistry are used to determine the quantitative relationships which describe the behavior of solids. Particular emphasis is placed upon the relationship between the structure and mechanical properties of crystalline solids. Applications consider control of properties as an engineering design variable. A term paper based upon review of the periodical technical literature is required. PREREQUISITE: Chemistry 1A and Physics 4A.

ENGR 5 C++ Scientific Programming  
Units: 3.0  Hours: 2.0 Lecture and 3.0 Laboratory  
Transferable: CSU, UC; CAN:CSCI4  
An introduction to computer problem solving and programming using the C++ language for science and engineering majors. Students will write programs for a variety of scientific and mathematical applications. PREREQUISITE: Mathematics 1A. ADVISORY: Completion of CSIS 10.