INDUSTRIAL PROCESS OPERATOR
ASSOCIATE OF APPLIED SCIENCE DEGREE
Catalog 2008-2009

The Industrial Process Operator program is designed to prepare students for entry-level positions as operator of power generation, natural gas, refinery, petrochemical or pharmaceutical processes. Process operators are employed by plants that produce products such as electricity, commodity gases (natural gas, propane, butane) gasoline, diesel fuel, industrial chemicals, plastics, ultra pure water, pharmaceuticals and other such products.

Students will train on functional processes with hands on experience with multiple working plants that are typical of the process plants of the San Juan Basin. Safety practices, procedures and regulatory compliance as well as industrial hygiene, and environmental stewardship are integrated throughout the program. This hands-on approach along with process theory presented by instructors with industry experience will thoroughly prepare graduates for entry-level operator positions.

**Note:** A student must earn a grade of "C" or higher in all courses in order to receive a degree.

| | | | | Credit Hours | Grade |
|---|---|---|---|---|---|
| **1st Semester** | | | | | |
| ____ | ENGL | 118 | Technical Composition | 3 | _____ |
| ____ | IPOP | 110 | Introduction to Process Technology | 4 | _____ |
| ____ | IPOP | 130 | Safety, Health and Environment | 4 | _____ |
| ____ | IPOP | 133 | Process Technology I - Equipment | 4 | _____ |
| ____ | MATH | 113 | Applied Mathematics for Vocational Students | 3 | _____ |
| | | | | Total 18 | |
| **2nd Semester** | | | | | |
| ____ | COSC | 125 | Business Microcomputer Applications | 3 | _____ |
| ____ | ENGL | 218 | Advanced Technical Composition | 3 | _____ |
| ____ | IPOP | 135 | Maintenance Overview for Operators | 4 | _____ |
| ____ | IPOP | 160 | Introduction to Instrumentation | 4 | _____ |
| ____ | IPOP | 165 | Process Technology II - Systems | 4 | _____ |
| | | | | Total 18 | |
| **3rd Semester** | | | | | |
| ____ | CHEM | 110 | Introductory Chemistry | 4 | _____ |
| ____ | IPOP | 235 | Process Technology III - Operators | 4 | _____ |
| ____ | IPOP | 261 | Distributed Control Systems | 4 | _____ |
| ____ | IPOP | 262 | Process Troubleshooting Systems | 4 | _____ |
| ____ | SPCH | 110 | Public Speaking **OR** | | |
| ____ | SPCH | 111 | Interpersonal Communications | 3 | _____ |
| | | | | Total 19 | |
| **4th Semester** | | | | | |
| ____ | _____ | ___ | Humanities/Social Science Elective* | 3 | _____ |
| ____ | IPOP | 263 | Gas Processing and Petroleum Refining | 4 | _____ |
| ____ | IPOP | 264 | Environmental Processes | 4 | _____ |
| ____ | IPOP | 265 | Electrical Power Generation | 4 | _____ |
| ____ | PHYS | 111 | Introduction to Physics | 4 | _____ |
| | | | | Total 19 | |

Total credit hours required for this degree is 74

* See page 51, Humanities and Social Science Elective, 2008-2009 San Juan College catalog.