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|  | ARCHITECTURE & CONSTRUCTION |
| **EARN YOUR BUSINESS & INDUSTRY ENDORSEMENT** |

**PIPEFITTING PROGRAM OF STUDY** |
| **09720** | Construction Technology, 1 credit | **GPA Level: Regular** |
|  | **Grades 9-12** | **Service ID: 13005100** |  |
|  | **Prerequisite:**  | **None** |
|  | **Advanced Technical Credit\*:** | **Statewide: DFTG 1215/1315 or CNBT 1300** |
|  | **Industry Certification:** | **NCCER Core** |
|  | **Endorsement/Career Cluster:** | **Business & Industry/ Architecture & Construction** |
| Work with your hands! Identify employment opportunities in the architecture and construction industry, learn how to do working drawings and use various materials to construct projects. The student must work safely with tools, equipment, machines and materials. The student will gain the knowledge about building materials used in the construction industry and cabinetmaking. The student MUST work safely with the tools in a lab setting. *\*See definition of advanced technical credit in the introduction to the CTE section of the course description guide.* |
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| **09705** | Agricultural Mechanics & Metal Technologies, 1 credit | **GPA Level: Regular** |
|  | **Grades 10-12** | **Service ID: 13002200** |  |
|  | **Recommended Prerequisite:** | **Principles of Agriculture, Food, & Natural Resources** |  |
|  | **Advanced Technical Credit\*:** | **Lee College: WLDG 1428****Statewide: DEMR: 1301/1401 or AGME 1315/1415** |  |
|  | **Industry Certification:** | **NCCER Core** |  |
|  | **Endorsement/Career Cluster:** | **Business & Industry/ Ag, Food, & Natural Resources** |
| This course is designed to introduce basic theory and specialized skill in agricultural fabrication. Skills to be developed include tool identification and safe use, carpentry, electricity, plumbing, masonry, fencing, painting metal working and welding processes. *\*See definition of advanced technical credit in the introduction to the CTE section of the course description guide.* |
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| **09726** | Pipefitting & Plumbing Technology, 2 credits (2 class periods) (SCC) | **GPA Level: Regular** |
|  | **Grades 10-12** | **Service ID: 13006000** |  |
|  | **Required Prerequisite:** | **Construction Technology or Agricultural Mechanics and Metal Fabrication** |  |
|  | **Industry Certification:** | **NCCER Core** |  |
|  | **Endorsement/Career Cluster:** | **Business & Industry/ Architecture & Construction** |
| In Piping and Plumbing Technology, students gain knowledge and skills needed to enter industry as a plumber, pipe fitter, or building maintenance technician or supervisor or prepare for a postsecondary degree in construction management, architecture, or engineering. Students acquire knowledge and skills in tool usage, safety, pipefitting, drainage, building codes, and water supply. |
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| **PFPB 1350** | Dual Credit – Piping and Plumbing Equipment Safety, ½ credit | **GPA Level: Dual Credit** |
|  | **Grades 11-12** | **Service ID: 13006000** |  |
|  | **Required Prerequisite:**  | **Agricultural Mechanics and Metal Fabrication or Welding****See Lee College Catalog**  |
|  | **Endorsement/Career Cluster:** | **Business & Industry/ Architecture & Construction** |
| This course is Plumbing and Pipefitting Equipment and Safety and is taught at Lee College as part of the Pipefitting Technology – PF1, Certificate of Completion. Safe use of hand tools, power tools, rigging and power equipment used in the plumbing trade for installation of different plumbing systems is taught. Students in this course are strongly encouraged to also take Advanced Business Information Management in order to earn additional credits toward the Pipefitting A.A.S. at Lee College. |
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| **PFPB 1408** | Dual Credit – Basic Pipefitting, ½ credit | **GPA Level: Dual Credit** |
|  | **Grades 11-12** | **Service ID: 13006000** |  |
|  | **Required Prerequisite:**  | **Agricultural Mechanics and Metal Fabrication or Welding****See Lee College Catalog**  |
|  | **Endorsement/Career Cluster:** | **Business & Industry/ Architecture & Construction** |
| This course is Basic Pipefitting Skills and is taught at Lee College as part of the Pipefitting Technology – PF1, Certificate of Completion. Mathematical operations necessary to calculate laying lengths of pipe fittings for fabrication is taught. Students will also learn the identification and use of hand tools as well as identification of pipe, pipe fittings, flanges, and fasteners used in the trade. Students in this course are strongly encouraged to also take Advanced Business Information Management in order to earn additional credits toward the Pipefitting A.A.S. at Lee College. |
| **PFPB 1305** | Dual Credit – Basic Blueprint Reading for Pipefitters, ½ credit | **GPA Level: Dual Credit** |
|  | **Grades 11-12** | **Service ID: 13006000** |  |
|  | **Required Prerequisite:**  | **PFPB 1350 & PFPB 1408**  |
|  | **Endorsement/Career Cluster:** | **Business & Industry/ Architecture & Construction****Advanced CTE** |
| This course is Basic Blueprint Reading for Pipefitters and is taught at Lee College as part of the Pipefitting Technology – PF1, Certificate of Completion. Instruction includes reading, interpreting and sketching pipe drawing, as well as isometric and orthographic views. Students in this course are strongly encouraged to also take Advanced Business Information Management in order to earn additional credits toward the Pipefitting A.A.S. at Lee College. |

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| **PFPB 2407** | Dual Credit – Pipe Fabrication & Installation, ½ credit | **GPA Level: Dual Credit** |

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|  | **Grades 11-12** | **Service ID: 13006000** |  |
|  | **Required Prerequisite:**  | **PFPB 1350 & PFPB 1408**  |
|  | **Endorsement/Career Cluster:** | **Business & Industry/ Architecture & Construction****Advanced CTE** |
| This course is Pipe Fabrication and Installation I and is taught at Lee College as part of the Pipefitting Technology – PF1, Certificate of Completion. Instruction includes pipe fabrication of various materials and installation of pipe supports. Students in this course are strongly encouraged to also take Advanced Business Information Management in order to earn additional credits toward the Pipefitting A.A.S. at Lee College. |