



Course Catalog

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Subject to change

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Program Description

Every student at the College of St. Joseph the Worker will earn a Catholic Studies degree. This degree explores the Catholic intellectual tradition, which teaches that man is a rational being, but one that needs the aids of grace and revelation to properly understand the full reality of the Holy Trinity and His creation. As grace perfects nature in accordance with the inner dynamism of the rational soul, so theology perfects philosophy and all studies of the humanities by illuminating the true sense and nature of being, allowing finite intellects to understand truths that it never could have discovered by its own power. The College of St. Joseph the Worker assumes the Catholic tradition not as an intellectual crutch but rather as the ladder by which man can scale beyond the natural limits of the human mind to reach more profound, dynamic, and complex truths that truly free the soul. The tradition is not merely propositional content. It is a method of seeking the truth always with the humility of a creature and so in a manner that is always receptive to the gift of revelation. Reason is not aided by faith. Reason is fulfilled in faith. Our curriculum is, therefore, not divided into “natural” and “supernatural” pursuits. Rather, everywhere, in all of our studies, our reason is healed and perfected by our faith.

The Curriculum

The College of St. Joseph the Worker forms students in the lay vocation. The lay vocation consists of three primary “tasks”: Family, Work, and Politics. Our curriculum is therefore designed to give the students what they need in order to achieve excellence in these aspects of the Church’s life. All students share the “Core” curriculum of the first three quarters of study. This Core provides a skeleton of Church history and cultural knowledge that is fleshed out with the knowledge gained in subsequent courses. By the end of a student’s studies, his body of knowledge will form an organic whole—a world-view—that, when combined with formation in the interior life of prayer and the sacramental life of the Church, will enable the student to fulfill his lay vocation and so find happiness.

Modeled on the Universities of Christendom

There are three types of courses.

First, there are shop courses. These are hands-on courses in which the student will learn the skills necessary to plan and complete projects of direct, material creation. The student will learn how things work and how to work on things.

Second, there are *lectio* courses. *Lectio* is the source of the English word “lecture,” but it also means “reading.” Our *lectio* courses include both activities. They follow the medieval tradition of a professor providing a close,

nearly passage-by-passage reading of important texts. The students, therefore, read with the professor. They learn not only the content of the texts but also how to read.

Third, there are *disputatio* courses. *Disputatio* is the source of the English word “disputation,” though the meaning isn’t quite the same. In *disputatio* courses, the students engage with a variety of texts that present different viewpoints on particular problems, and they discuss them in a seminar setting. The objective is to find where these viewpoints can be reconciled and where they cannot, to determine what aspects of them can be integrated into the body of truth and which must be rejected and why. The rationale for the rejection of erroneous positions becomes, therefore, as integral to the body of truth retained by the student as does the rationale for the embrace of sound positions.

At the medieval universities, *lectio* and *disputatio* were followed by *meditatio* and finally *praedicatio*. *Meditatio* is meditation. It is the prayerful thoughtfulness through which the truths of *lectio* and *disputatio* are internalized into the life of the virtuous person. The entire environment of the College of St. Joseph the Worker is aimed at cultivating *meditatio* as a necessary aspect of what it means to be a well-formed Catholic layperson. *Praedicatio* means preaching. The universities of Christendom were ordered always to the proclamation of the Gospel for the conversion of the world. The College of St. Joseph the Worker proudly follows this tradition. The *praedicatio* of the lay vocation is not the same as the preaching of the clerical vocation, but it is no less essential to the Church. As the cleric makes Christ present in his preaching, so the laity make Christ present by sanctifying the temporal order. As Vatican II taught: “The work of Christ’s redemption concerns essentially the salvation of men; it takes in also, however, the renewal of the whole temporal order” (*Apostolicam Actuositatem* 5). The temporal order includes: “personal and family values, culture, economic interests, the trades and professions, institutions of the political community, international relations, and so on” (AA 7). Lay *praedicatio* is, therefore, manifest most properly in action. The laity’s vocation is expansive, difficult and indispensable. Again, as the council taught: “The apostolate in the social milieu, that is, the effort to infuse a Christian spirit into the mentality, customs, laws, and structures of the community in which one lives, is so much the duty and responsibility of the laity that it can never be performed properly by others” (AA 13). The curriculum of the College of St. Joseph the Worker is ordered from top to bottom for this bold mission.

Curriculum Overview

The College of St. Joseph the Worker has opted to use a model that encourages students to delve more deeply into the material of fewer courses. Hence courses tend to be more credit hours so that students can cover more ground with a single professor.

Craftsman BA Program (six years)

In years two and three students will specialize in a trade. Depending on the selected trade, “Related Instruction” will include (For Plumbing) PL211, PL221, PL231, PL311, PL321, and PL331 or (for Electrical) EL211, EL221, EL231, EL311, EL321, and EL331 or (for Carpentry) CR211, CR221, CR231, CR311, CR321, and CR331 or (for HVAC) HC211, HC221, HC231, HC311, HC321, and HC331.

Year One

Quarter 1	Quarter 2	Quarter 3	Quarter 4
CS 111: History and Culture 1	CS 121: History and Culture 2	CS 131: History and Culture 3	CS 141: Catholicism
CS 112: Old Testament 1	CS 122: Old Testament 2	CS 132: New Testament	[Paid Professional Work]
SH 111: Shop 1	SH 121: Shop 2	SH 131: Shop 3	
CS 113: Rhetoric 1	CS 123: Rhetoric 2	CS 133: Rhetoric 3	

Year Two

Quarter 1	Quarter 2	Quarter 3	Quarter 4
CS 211: Introduction to Philosophy	CS 221: Literature 1	CS 231: St. Augustine's Thought	CS 241: History of Architectural and Decorative Style
[Trade] 211: Related instruction	CS 222: Applied Physics	[Trade] 231: Related instruction	[Paid Professional Work]
[Paid Professional Work]	[Trade] 221: Related instruction	[Paid Professional Work]	
[Optional] CS 212: College Math	[Paid Professional Work]		

Year Three

Quarter 1	Quarter 2	Quarter 3	Quarter 4
CS 311: Metaphysics	CS 321: St. Thomas Aquinas and Bonaventure	CS 331: Economic Theories	CS 341: Compositions and Structures
[Trade] 311: Related instruction	CS 322: Political Theory	[Trade] 331: Related instruction	[Paid Professional Work]
[Paid Professional Work]	[Trade] 321: Related instruction	[Paid Professional Work]	
	[Paid Professional Work]		

Year Four

Quarter 1	Quarter 2	Quarter 3	Quarter 4
[Apprenticeship]	[Apprenticeship]	[Apprenticeship]	[Apprenticeship]
CS 411: Literature 2: Modern	CS 412: Catholic Social Doctrine 1	CS 421: Reasons for the Faith	CS 422: Theology of the Body

Year Five

Quarter 1	Quarter 2	Quarter 3	Quarter 4
[Apprenticeship]	[Apprenticeship]	[Apprenticeship]	[Apprenticeship]
CS 431: Construction Management	CS 432: Family and Politics	CS 441: Spiritual Classics	CS 442: Modern Theology

Year Six

Quarter 1	Quarter 2	Quarter 3	Quarter 4
[Apprenticeship]	[Apprenticeship]	[Apprenticeship]	[Apprenticeship]
CS 451: Contemporary Politics	CS 452: American Founding	CS 461: Catholic Social Doctrine 2	CS 462: American History 1800–Present

Course Descriptions

CS 111: History and Culture 1 (3 credits)

An introduction to history from Adam to the reign of Charlemagne. The course teaches the student to read the events of history as answers to philosophical and theological questions, such as: Who is the human person? What is the Church? How can we understand Providence?

CS 112: Old Testament 1 (3 credits)

Students will be trained in the exegetical reading of the Pentateuch and Historical Books of the Old Testament.

CS 113: Rhetoric 1 (2 credits)

This course is taken simultaneously to CS111: History and Culture 1 and CS112: Old Testament 1. The course focuses on how to read, how to write, and how to speak within various genres. The course will help the students work through selections from the reading assignments given in CS111 and CS112, teaching the student how to dissect a source, how to diagram an argument, how to identify fallacious reasoning and tactics of sophistry, and how to understand content from different genres. In addition, the course will teach the basics of solid composition, again focusing on the writing assignments given in CS111 and CS112. The students will workshop these assignments and submit drafts, building to the compositions actually turned in to the professors of CS111 and CS112. The students will give occasional oral presentations to the class concerning these compositions.

SH 111: Shop 1: An introduction to work: safety and understanding tools and the trades (8 credits)

Students will learn the basics of the 5 major trades (plumbing, electrical, masonry, carpentry and HVAC), as well as safety practices in the shop and on the worksite. This course is designed to teach basic workplace safety and to assist students in discerning whether to pursue a career in the trades.

CS 121: History and Culture 2 (3 credits)

An introduction to history beginning with Charlemagne and ending with the era of Divine-Right Absolutism. The student will become familiarized with the liturgical order of the medieval world.

CS 122: Old Testament 2 (3 credits)

Students will be trained in the exegetical reading of the Wisdom Literature, Prophets, and Late Historical Books of the Old Testament.

CS 123: Rhetoric 2 (2 credits)

This course is taken simultaneously to CS121: History and Culture 2 and CS122: Old Testament 2. The course focuses on preparation, organization, and presentation of oral argumentation. The course will focus on monologues—written and extemporaneous, prepared and impromptu.

SH 121: Shop 2: Beginning construction techniques and applications (8 credits)

Students will learn the tools and techniques for basic construction. This course will include site visits to construction projects and will include hands-on shop time as a training ground for developing a safe familiarity with tools and how to use them.

CS 131: History and Culture 3 (3 credits)

An introduction to history that studies the destruction of Christian social order and the building of the post-Christian West, beginning with Divine-Right Absolutism and ending with the papacy of Benedict XVI.

CS 132: New Testament (3 credits)

Students will be trained in the exegetical reading of the entire New Testament, with a particular concentration on the gospels.

CS 133: Rhetoric 3 (2 credits)

This course is taken simultaneously to CS131: History and Culture 3 and CS132: New Testament 1. The course focuses on debating—both in written and oral form.

SH 131: Shop 3: Anatomy of a house and its construction (8 credits)

Students will learn about how a house is built and the basics of maintenance, troubleshooting, and repair. They will also learn to calculate quantities of materials and how to plan a job. This course will begin at site development and will include all aspects of construction from the foundation to the roof.

CS 141: Catholicism (5 credits)

A survey of the fundamentals of the Catholic faith, such as Revelation, Sacraments, Ecclesiology, Dogmatics, and Prayer.

CS 211: Introduction to Philosophy (5 credits)

An introduction to the love of wisdom. Students will read foundational western philosophical texts while practicing the skills necessary to refute error and articulate truth.

CS 212: College Math (3 credits)

The perennial question of the students, “How does this apply to my life” will always have a ready answer in this course. But rather than dumbing down mathematics for practical applications, we will use practical applications to spur on more high level mathematical explorations. This course will cover functions, modeling, trigonometry, equations and inequalities, in addition to the reasons for math.

CS 221: Literature 1: Ancient and Medieval (5 credits)

Students are taught to critically read ancient myths, epics, and the foundational literature of the Christian tradition, with an emphasis on their depiction of labor.

CS 222: Applied Physics (3 credits)

Students will learn the fundamentals of Physics with special emphasis on its application within the skilled trades.

CS 231: St. Augustine's Thought (5 credits)

Augustine laid the theological foundations for many fundamental beliefs of the Catholic faith. Students will explore the major texts of this important Latin Father.

CS 241: History of Architectural and Decorative Style (4 credits)

This course teaches students to identify major historical architectural and decorative styles, their dominant features, their development, and the philosophical and aesthetic justifications for their use.

CS 311: Metaphysics (5 credits)

An introduction to metaphysics. Students will compare the Christian metaphysical tradition to its ancient and modern alternatives.

CS 321: St. Thomas Aquinas and St. Bonaventure (5 credits)

Students will explore the essential texts of the two foremost scholastic doctors, whom Pope Leo XIII identified as the “angelic St. Thomas and the seraphic St. Bonaventure.”

CS 322: Political Theory (3 credits)

Having explored the fundamentals of Catholic political theology in previous courses, students will learn to understand and critique modern political theory from Hobbes through Marx to Rawls.

CS 331: Economic Theories (5 credits)

Students study four major economic theories—high scholasticism; the school of Salamanca; classical economics; and neoclassical economics—and the controversies amongst them.

CS 341: Compositions and Structures (4 Credits)

This advanced science class considers the compositions and structures of popular building materials. The course has three main components: geology, dendrology, and chemistry. In the first section, students study stones and minerals, asbestos, granite, brick, tile, and other masonry components. In the second section, students learn how to identify different types of trees, cut wood, wood patterns, and regional diversification. In the third section, students study the chemical compositions of various mortars, treated lumber, epoxy, and more.

CS 411: Literature 2: Modern (5 credits)

From Shakespeare to Dostoevsky, students survey a number of foundational texts of modern literature, with an emphasis on the new priority given to the perspective of the laborer.

CS 412: Catholic Social Doctrine 1: Leo XIII–Paul VI (5 credits)

This class studies the topics of Catholic Social Teaching tradition through the social encyclicals, from Leo XIII to Pope Saint Paul VI.

CS 421: Reasons for the Faith (5 credits)

This course teaches students to defend the Catholic faith, readying them “to make a defense to any one who calls you to account for the hope that is in you.”

CS 422: Theology of the Body (5 credits)

A course on the philosophy and theology of sexual difference in the biblical, classical, medieval, modern and post-modern traditions, with special reference to Pope St. John Paul II's sexual ethics.

CS 431: Construction Management (4 credits)

Students will learn Catholic principles of business management in order to successfully manage whatever contracting enterprises they create.

CS 432: Family and Politics (5 credits)

A study of the significance of the family, labor, and the lay vocation in Christian and modern political thought.

CS 441: Spiritual Classics (5 credits)

Students will be introduced to classics of Western spirituality and taught to integrate their methods into the lay spiritual life.

CS 442: Modern Theology (5 credits)

This course introduces and evaluates the major theological debates surrounding the Councils of Trent, Vatican I, and Vatican II.

CS 451: Contemporary Politics (5 credits)

Students will study recent and current events, analyzing them with Catholic principles that they have studied over the course of the past years. Materials include key court cases, speeches, legislation, and news sources.

CS 452: American Founding (5 credits)

This course studies the founding of America through its primary texts. Students will consider the idea of America, from Christopher Columbus to the ratification of the Constitution, with an emphasis on the debates surrounding the Declaration and the Constitution.

CS 461: Catholic Social Doctrine 2 (5 credits)

This class studies the Catholic Social Teaching tradition through the social encyclicals, from Paul VI to Francis I.

CS 462: American History 1800–Present (5 credits)

The course follows the changing nature of the Republic throughout American history. The class focuses on the social and cultural transitions that occurred from the founding till today.

Trade Courses

PL 211: Plumbing 1 (4 credits)

Course description forthcoming based on these modules:

Plastic Pipe and Fittings

Copper Tube and Fittings

Cast Iron Pipe and Fittings

Steel Pipe and Fittings

Introduction to Drain, Waste, and Vent (DWV) Systems
Introduction to Water Distribution Systems
Plumbing Math Two

PL 221: Plumbing 2 (4 credits)

Course description forthcoming based on these modules:

Reading Commercial Drawings
Hangers, Supports, Structural Penetrations and Fire Stopping
Installing Roof, Floor and Area Drains
Types of Valves
Installing and Testing Water Supply Piping
Installing Fixtures – Valves and Faucets

PL 231: Plumbing 3 (4 credits)

Course description forthcoming based on these modules:

Introduction to Electricity
Installing Water Heaters
Fuel Gas Systems
Applied Math
Sizing Water Supply Piping

PL 311: Plumbing 4 (4 credits)

Course description forthcoming based on these modules:

Potable Water Treatment
Types of Venting
Sizing DWV and Storm Systems
Sewage Pumps and Sump Pumps
Corrosive-Resistant Waste Piping
Compressed Air

PL 321: Plumbing 5 (4 credits)

Course description forthcoming based on these modules:

Business Principles for Plumbers
Introductory Skills for the Crew Leader

Water Pressure Booster and Recirculation Systems
Indirect and Special Waste
Hydronic and Solar Heating Systems

PL 331: Plumbing 6 (4 credits)

Course description forthcoming based on these modules:

Codes

Private Water Supply Well Systems

Private Waste Disposal Systems

Swimming Pools and Hot Tubs

Plumbing for Mobile Homes and Travel Trailer

EL 211: Electrical 1 (4 credits)

Course description forthcoming based on these modules:

Multiwire Branch Circuits and Intro to Combination Circuits (Recreation Room)

Combination Circuits, Conductor Ampacity Correction and Conduit Fill (Workshop)

Services and Service Equipment, and Cost of Electrical Power

Grounding, Bonding, Specialty Tools

Overcurrent Protection and Circuit Conditions

Service Entrance Calculations

Swimming Pools, Spas and Hot Tubs

Home Automation, standby Power, and Photovoltaic Systems

NEC Scope, Definitions

Service Calculations

Services and Class 2 Installations

Conductor and Overcurrent Protection Class 3

Grounding Terminology, Equipment Grounding

Grounding Electrode System

Ohm's Law Review

Conduit Fill, Box Fill, Pull Box Sizing

Switched, Switchboards, and Panelboards

Flexible Cords, Luminaires, Receptacles

Intro to AC Theory and Places of Assembly

AC Theory: Inductive and Capacitive Reactance

AC Theory: Impedance and Power Factor

Single Phase Transformers; Introduction, Single Voltage

Single Phase Transformers; Introduction, Dual Voltage

EL 221: Electrical 2 (4 credits)

Course description forthcoming based on these modules:

Three Phase Power Generation

3O Transformers; Delta-Delta

3O Transformers; Delta-Wye

Non Linear Loads: 3O Fault Currents and Voltage Drop

Transformers: NEC Requirements

Buck Boost Transformers: Single and Three Phase

Buck Boost Transformers: Calculations and Selections

Generators, Transfer Switches and Emergency Systems

Electric Motors DC and Ac Single Phase

Electric Motors: Polyphase

Motors General Knowledge

Motor Branch Circuit Overcurrent Protection

Motor:Overload Protection

Locked Rotor Current and Phase Loss for Motors

Motor Feeder Conductors

EL 231: Electrical 3 (4 credits)

Course description forthcoming based on these modules:

Practical Guide to OSHA and NFPA

Intro to Grounding and Bonding

General Requirements for Grounding and Bonding

System Grounding: Grounded Conductors

System Grounding: Separately Derived Systems

Grounding Electrode Systems

Supply Side and Load Side

Equipment Grounding

Grounding of Specific Equipment

Printreading: Project Design

Printreading: Site, Civil, Survey

Printreading: Architectural Drawings-Lines, Dimension, Wall Types

Printreading: Architectural Drawings- Schedules,Details

Printreading MEP Drawings

Leadership: Foreman Training

EL 311: Electrical 4 (4 credits)

Course description forthcoming based on these modules:

Test Instruments

Toggle Switch, Push Button Intro to Ladder Diagrams

Intro to Contactors and Relays

Applications Using Contactors and Relays

Manual and Automatic Control Devices

Ladder Diagram Applications

Automatic-Control Practical Applications

Magnetic Motor Starters

Magnetic Motor Starters and Pilot Devices

Motor Overload Protection

Magnetic Motor Starters

Motor Reversing

Magnetic Motor Starters: Practical Applications

Latching Relays, Alternating Relays

Magnetic Motor Starters: Multi Motor Equipment

EL 321: Electrical 5 (4 credits)

Course description forthcoming based on these modules:

Energized Electrical Work

Power Distribution Systems

Solid State Relays and Phase -Loss Lab

Timing Relays: On-Delay, Interval and Recycle

Timing Relays: Practical Applications

Timing Relays: Off-Delay, One Shot

Timing Relays: Practical Application of Off-Delay

Counters and Sensors

Motor Starting Methods

Motor Drives Accelerating and Decelerating

Intro to Programmable Controllers

Advanced Lab Automatic Car Wash

Energy Management

Fire Suppression Systems

Preventive Maintenance

EL 331: Electrical 6 (4 credits)

Course description forthcoming based on these modules:

Intro, Definitions, and Boxes
Cable Types and Flex Cords
Raceways and Conductors
Dwelling Units General Provisions
Dwelling Units Specific Provision
Services: Equipment and Working Spaces
Commercial Installations
Hazardous Locations
Misc. Occupancies
Alternative Energy Sources
Motors and Power Quality
Service and Load Calculations
BCES Application and Grounding
Fire Alarm Systems
Intro to Limited Energy/Low Voltage

CR 211: Carpentry 1 (4 credits)

Course description forthcoming based on these modules:

Roof Framing
Commercial Drawings

CR 221: Carpentry 2 (4 credits)

Course description forthcoming based on these modules:

Cold-Formed Steel Framing
Suspended Ceilings
Rigging Equipment and Practices
Reinforcing Concrete
Trenching and Excavating

CR 231: Carpentry 3 (4 credits)

Course description forthcoming based on these modules:

Foundations and Slab-On-Grade
Vertical Formwork

Horizontal Formwork

CR 311: Carpentry 4 (4 credits)

Course description forthcoming based on these modules:

Tilt-Up Wall Panels

Site Layout I — Distance Measurement and Leveling

Site Layout II — Angular Measurement

CR 321: Carpentry 5 (4 credits)

Course description forthcoming based on these modules:

Advanced Roof Systems

Advanced Wall Systems

Advanced Stair Systems

CR 331: Carpentry 6 (4 credits)

Course description forthcoming based on these modules:

Introduction to Light Equipment

Welding

Site Preparation

Introductory Skills for the Crew Leader

HC 211: HVAC 1 (4 credits)

Course description forthcoming based on these modules:

Basic Electricity

Basic Copper and Plastic Piping Practices

Soldering and Brazing

Basic Carbon Steel Piping Practices

Commercial Airside Systems

Chimneys, Vents, Flues

Introduction to Hydronic Systems

Air Quality Equipment

Alternating Current

HC 221: HVAC 2 (4 credits)

Course description forthcoming based on these modules:

Leak Detection – Evacuation – Recovery and Charging
Introduction to Control Circuit Troubleshooting
Troubleshooting for Gas Heating and Cooling

HC 231: HVAC 3 (4 credits)

Course description forthcoming based on these modules:

Heat Pumps
Sheet Metal Duct Systems
Fiberglass and Flexible Duct Systems
Refrigerants and Oils
Compressors
Metering Devices
Retail Refrigeration Systems

HC 311: HVAC 4 (4 credits)

Course description forthcoming based on these modules:

Commercial Hydronic Systems
Steam Systems
Planned Maintenance
Water Treatment
Troubleshooting Electronic Controls, Oil Heating, Heat Pumps and Accessories

HC 321: HVAC 5 (4 credits)

Course description forthcoming based on these modules:

Construction Drawings and Specifications
Indoor Air Quality
Energy Conservation Equipment
Building Management Systems
Water Treatment

HC 331: HVAC 6 (4 credits)

Course description forthcoming based on these modules:

System Startup and Shutdown
Heating and Cooling System Design
Commercial and Industrial Refrigeration