COURSE SYLLABUS

OAD: Associate of Applied Science in Drafting and Design (Self-Paced)

Gain job-ready CAD and BIM expertise through hands-on coursework that mirrors real industry tools, workflows, and standards in the AEC field.

> Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://www.graduateschool.edu/certificates/oad-associates-of-applied-science-in-drafting-and-design-self-paced



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Course Outline

This package includes these courses

- Residential Blueprint Reading Course (Self-Paced) (10 Hours)
- Commercial Blueprint Reading Course (Self-Paced) (20 Hours)
- Introduction to Residential Design Course (Self-Paced) (10 Hours)
- Intro to AutoCAD Course (Self-Paced) (30 Hours)
- Intro to AutoCAD Lab (Self-Paced) (20 Hours)
- Intermediate AutoCAD Course (Self-Paced) (30 Hours)
- Intermediate AutoCAD Lab (Self-Paced) (20 Hours)
- AutoCAD Construction Documents I Course (Self-Paced) (30 Hours)
- AutoCAD Construction Documents II Course (Self-Paced) (30 Hours)
- AutoCAD Construction Documents III Course (Self-Paced) (30 Hours)
- CAD Detailing Course (Self-Paced) (30 Hours)
- Introduction to Commercial Design Course (Self-Paced) (20 Hours)
- Intro to Revit Course (Self-Paced) (30 Hours)
- Introduction to Revit Lab (Self-Paced) (20 Hours)
- Intermediate Revit Course (Self-Paced) (30 Hours)
- Intermediate Revit Lab (Self-Paced) (20 Hours)
- BIM Construction Documents I Course (Self-Paced) (30 Hours)
- BIM Construction Documents II Course (Self-Paced) (30 Hours)
- BIM Construction Documents III Course (Self-Paced) (30 Hours)
- BIM Detailing Course (Self-Paced) (20 Hours)
- Intro to Photoshop Course (Self-Paced) (30 Hours)
- Introduction to Photoshop Lab (Self-Paced) (20 Hours)
- Intermediate Photoshop Course (Self-Paced) (30 Hours)

- Introduction to Illustrator Course (Self-Paced) (30 Hours)
- Introduction to Illustrator Lab (Self-Paced) (20 Hours)
- Illustrator Intermediate Course (Self-Paced) (30 Hours)
- Introduction to InDesign Course (Self-Paced) (30 Hours)
- Introduction to InDesign Lab (Self-Paced) (20 Hours)
- Intermediate InDesign Course (Self-Paced) (30 Hours)
- Revit & Twinmotion Interior Rendering Course (Self-Paced) (30 Hours)
- Revit & Twinmotion Exterior Rendering Course (Self-Paced) (30 Hours)
- Communication & Connection Course (Self-Paced) (10 Hours)
- Self-Management Skills Course (Self-Paced) (10 Hours)
- Teamwork, Collaboration & Leadership Course (Self-Paced) (10 Hours)
- OAD Capstone Project (Self-Paced) (60 Hours)
- OAD Portfolio Course (Self-Paced) (30 Hours)
- College Algebra Course (Self-Paced) (30 Hours)
- College Geometry Course (Self-Paced) (30 Hours)
- Calculus 1 Course (Self-Paced) (30 Hours)
- English Composition Course (Self-Paced) (30 Hours)
- Technical Writing Course (Self-Paced) (30 Hours)
- Intro to Sociology Course (Self-Paced) (30 Hours)
- Communications Course (Self-Paced) (30 Hours)
- Art History Course (Self-Paced) (30 Hours)

Residential Blueprint Reading Course (Self-Paced)

Taught by a licensed architect, this course provides a solid foundation in interpreting residential construction blueprints. Ideal for beginners or professionals, you'll learn to read architectural symbols, scales, and key components like floor plans, elevations, and sections. Through hands-on exercises and real-world examples, you'll gain the skills to effectively visualize and execute residential designs. The course is also available in Spanish.

- Understand the interrelationship between different drawings in a set of Construction Documents (blueprints).
- Analyze various drawings and how scale is represented across Construction Documents.
- Recognize similarities in blueprint construction documents used for building permits.
- Understand the importance of consistency in presenting information throughout all types of Construction Documents.

Commercial Blueprint Reading Course (Self-Paced)

Learn to interpret and analyze commercial construction blueprints in this course, taught by a licensed architect. Designed for construction professionals and students, the course focuses on mixed-use commercial projects such as hotels, retail spaces, and parking structures. You'll gain the skills to read architectural, structural, mechanical, and electrical plans, enhancing your ability to communicate and collaborate effectively throughout the construction process. This course is also available in Spanish.

- Blueprint Essentials: Gain a thorough understanding of architectural, structural, mechanical, and electrical plans used in mixed-use commercial construction projects.
- Industry Standards: Learn to read and interpret symbols, notations, and technical details in line with industry standards and evaluate construction documents for building permits.
- Hands-On Learning: Work with real-world construction drawings to build practical skills in blueprint interpretation.

- Application of Knowledge: Understand how blueprints are used in cost estimation, project planning, and ensuring accuracy during construction.

Introduction to Residential Design Course (Self-Paced)

Intro to AutoCAD Course (Self-Paced)

In this beginner-friendly AutoCAD course, you'll learn how to draw drafting symbols, kitchen and bath fixtures, and create a floor plan, all while assembling everything into one cohesive sheet file. You'll get hands-on experience with AutoCAD's user interface and essential commands, including drawing, modifying, layering standards, text, dimensioning, and plotting. Using source AutoCAD files, you'll work on a Habitat for Humanity residential project, starting from scratch and building your skills along the way.

- Create drafting symbols, kitchen and bath fixtures, and a floor plan, then combine them into a deliverable sheet file.
- Understand the differences between drawings for annotation and those for real-world modeling components.
- Learn to create and insert blocks, use external references, and know when to apply these skills.
- Master file management, layer-based drafting, integrating drawing components, and plotting while working on a residential project.

Intro to AutoCAD Lab (Self-Paced)

Get hands-on with AutoCAD in this lab that pairs with Intro to AutoCAD, drawing drafting symbols and kitchen and bath fixtures, building a full floor plan, and pulling it all together into a single deliverable sheet file. As you go, you'll grow comfortable with the interface and the essential tools for drawing, editing, layering, text, dimensioning, and plotting.

- Create drafting symbols, kitchen and bath fixtures, and a complete floor plan, then integrate all elements into one deliverable sheet file
- Understand the difference between drawings used for annotation and those used as real-world model components
- Create, insert, and manage blocks and external references, and learn when each should be applied
- Practice file management, drafting on layers, integrating drawing component files, and plotting

Intermediate AutoCAD Course (Self-Paced)

In this course, you will draft an abbreviated set of CAD construction documents for a Habitat for Humanity project, including floor plans, roof plans, and elevations. You'll learn to create blocks, use external references, and optimize workflow with advanced AutoCAD commands. Topics include file referencing, user coordinate systems, dynamic viewing, and managing model/layout environments. This course strengthens your AutoCAD foundation and introduces intermediate-level techniques for efficiency and accuracy.

- Draft an abbreviated set of construction documents, including floor plans, foundation plans, electrical plans, and building elevations for a small residential project.
- Create and insert blocks, use external references, and apply these techniques to improve project efficiency.
- Demonstrate file and layer management, use of external file references, and navigate model/layout environments with user coordinate systems.
- Apply intermediate skills, including layer management, creating sheet layouts, and plotting, while refining your overall AutoCAD workflow.

Intermediate AutoCAD Lab (Self-Paced)

Put your AutoCAD skills to work in this hands-on lab paired with Intermediate AutoCAD, where you'll build an abbreviated set of

construction documents for a Habitat for Humanity project, using blocks and external references to link drawings while sharpening advanced techniques like file referencing, coordinate systems, and model and paper space.

- Create an abbreviated set of construction documents, including floor plan, foundation plan, electrical plan, and building elevations for a small residential project
- Create and insert blocks, externally reference files, and apply those skills to optimize project efficiency
- Demonstrate layer and file management, external file referencing, and use of model/layout environments
- Apply intermediate skills including user coordinate systems, sheet layout environments, and plotting

AutoCAD Construction Documents I Course (Self-Paced)

Develop key AutoCAD skills by creating construction documents for a moderately complex one-story residence. This course takes you through drafting titleblock drawings, floor plans, multi-scale enlarged plans, roof plans, and building elevations. You will also learn practical CAD workflows, covering 2D drawing commands, dimensioning, layering, layout environments, and plotting.

- Create titleblock components and drawing labels for professional office documentation to develop deliverable sheet files.
- Draft floor plans, enlarged plans, roof plans, and building elevations for a moderately complex residential project, complete with detailed notes.
- Integrate referenced files to produce construction documents while demonstrating layer and file management, model/layout environments, and multi-scale drawing presentation.
- Organize deliverable sheet sets according to National CAD Standards.
- Apply intermediate skills to create sheet layouts and prepare files for plotting.

AutoCAD Construction Documents II Course (Self-Paced)

Advance your AutoCAD skills in this course focused on creating detailed construction documents for moderately complex residential projects. You'll learn to produce building elevations, sections, wall details, and metes and bounds drawings. The course emphasizes annotation consistency, layer management, plotting styles, and custom block creation to streamline documentation workflows.

- Create building elevations, sections, wall sections, modify detail drawings, and produce metes and bounds (Civil) drawings for a moderately complex residential project.
- Develop title sheets and appropriate general and keynote legends.
- Integrate referenced files to build construction documents, manage layers and files, and use model/layout environments for multi-scale drawings.
- Apply intermediate and advanced skills to create sheet layout environments and manage plotting.
- Organize deliverable sheet sets following National CAD Standards for consistency and accuracy.

AutoCAD Construction Documents III Course (Self-Paced)

CAD Detailing Course (Self-Paced)

Improve your architectural detailing skills in this online course. Learn to create detailed drawings from scratch and extract information from existing documents. You'll produce drawings at various scales and integrate them into full-scale deliverable sheet files. Led by a licensed architect, the course combines lectures, demonstrations, and labs to strengthen your proficiency in AutoCAD commands, dimensioning, layering, layout environments, and plotting.

- Create detailed drawings relevant to the course project.
- Produce deliverable sheet files for construction documents.
- Integrate referenced files to generate detailed content for construction documents.
- Manage layers and files, work with model/layout environments, and present multi-scale drawings.
- Apply intermediate and advanced skills for creating sheet layouts and preparing for plotting.

Introduction to Commercial Design Course (Self-Paced)

Intro to Revit Course (Self-Paced)

In this beginner course, you'll explore how information is connected throughout a Revit (BIM) model using Revit Architecture tools. Learn to create 3D building models that automatically generate 2D architectural drawings, including floor plans, elevations, and 3D perspectives. You'll work from a pre-made template to build a complete Building Information Model, place views on sheets, and export drawings to PDF. The course provides source Revit files and step-by-step instructional videos to guide you through each stage of the project.

- Understand core Revit concepts and their role in Building Information Modeling (BIM).
- Navigate and utilize the Revit User Interface effectively.
- Build a 3D model to see how project information is connected throughout the design.
- Apply proper workflows to complete Revit tasks efficiently.
- Develop a complete project with floors, walls, ceilings, stairs, curtain walls, and roofs to enhance 3D modeling and 2D documentation skills.
- Produce high-quality presentation graphics for architectural projects.
- Organize and manage building data using schedules.

Introduction to Revit Lab (Self-Paced)

Get hands-on with Revit in this lab paired with Intro to Revit, where you'll use BIM tools to build a 3D model that generates floor plans, elevations, and perspective views, place them on sheets, and print to PDF.

- Describe primary Revit concepts and how they relate to Building Information Modeling (BIM)
- Explore the Revit user interface
- Design a 3D building model to show how information is interrelated
- Determine the appropriate workflow to complete tasks within Revit
- Develop a project with floors, walls, ceilings, stairs, curtain walls, and roof design

Intermediate Revit Course (Self-Paced)

In this online intermediate BIM course, you will build on your Revit Architecture skills by learning advanced techniques for documenting a building project. You'll refine an existing Revit model, explore design options, create custom schedules, develop 2D and 3D parametric families, and produce a streamlined set of construction documents. By the end of the course, you'll be able to transform a conceptual model into a fully integrated and interoperable construction document set.

- Incorporate DWG files to enhance Revit details and drawings.
- Apply element tagging for accurate cost estimation and material take-offs.
- Utilize design options to present and compare multiple design scenarios.

- Develop 3D parametric families for reusable building components.
- Create customized schedules for doors, materials, and rooms to support construction documentation and take-offs.
- Implement BIM project management strategies to maintain efficient, well-organized models.

Intermediate Revit Lab (Self-Paced)

Sharpen your Revit skills in this hands-on lab paired with Intermediate Revit, where you'll build on an existing model to schedule components, create 2D and 3D families, refine graphics, and produce a streamlined construction-document set, all while exploring design options and developing custom schedules and families.

- Integrate DWG files to create Revit details
- Tag elements for cost estimation and material take-offs
- Explore design options and how to present them
- Create 3D parametric families
- Build customized door, material, and room schedules for construction take-offs
- Apply BIM project-management techniques to keep models efficient

BIM Construction Documents I Course (Self-Paced)

This online Revit course is the first in a series focused on creating construction documents using Revit Architecture. You'll model a single-story commercial building, import AutoCAD drawings, and create a site model. Then, you'll expand the model with a two-story addition, applying advanced Revit techniques used in real-world AEC workflows.

- Use BIM modeling tools to create an architectural model, including an existing building, partial demolition, and new construction.
- Build topography and create a site plan using external files, incorporating hardscape and landscaping elements.
- Differentiate project phases by visually distinguishing between existing construction and new construction.
- Create professional-quality renderings for presentations and documentation.

BIM Construction Documents II Course (Self-Paced)

You will develop construction documents for the commercial building and site from BIM 301, including sheet drawings, keynotes, detail drawings, and schedules.

- Prepare a complete set of architectural construction documents that integrate site and building models from BIM Construction Documents I.
- Create progress sets of construction documents, representing 30%, 60%, 90%, and 100% deliverable submittals.
- Produce floor plans, sections, and elevations for sheet layouts.
- Add keynotes to elements of the project model and develop schedules and architectural details extracted from the BIM model.

BIM Construction Documents III Course (Self-Paced)

Build on an existing commercial building model to complete a coordinated Revit drawing set. Develop plan annotations, material and graphic legends, elevations, wall sections, enlarged plans and interior elevations.

Create gross and rentable area plans, use phasing for a future tenant layout, and complete revisions and quality-control checks before exporting the drawing set.

- Complete floor plan documentation, graphic symbols and material legends.

- Create elevations, wall sections, enlarged plans and interior elevations.
- Document gross and rentable building areas.
- Use phasing to develop a future tenant layout.
- Review revisions and quality control, then export the drawing set.

BIM Detailing Course (Self-Paced)

Get skilled at producing detailed construction drawings that deliver structural integrity, safety, and design clarity. This course sharpens your Revit abilities so you can create thorough building system details and manage them according to industry standards.

- Produce detail drawings of building systems that show structural integrity and sound construction practices.
- Build and integrate detail drawings that reduce or prevent accidental injury or death among the people who use the buildings.
- Prepare detail drawings that illustrate construction systems, products, and finishes.
- Create details and organize the detail information to meet project-based lineweight and National CAD/BIM standards.

Intro to Photoshop Course (Self-Paced)

This comprehensive online Adobe Photoshop training course is designed for beginners and offers a step-by-step, hands-on, real-world approach. Led by certified professionals who use Photoshop daily, this course covers essential tools and workflows for photo and graphic design projects. You'll gain the skills needed to adjust, enhance, and create stunning images and graphics, ensuring you're equipped to succeed.

- Understand and use the basic Photoshop tools for adjusting and correcting images effectively.
- Apply techniques to enhance, supplement, and compose files for marketing materials.
- Organize files and layers within Photoshop's interface to streamline your workflow.
- Adjust and export images with various file types, dimensions, and color settings.

Introduction to Photoshop Lab (Self-Paced)

This hands-on lab is paired with Intro to Photoshop. You'll learn the Adobe Photoshop interface and the tools and features that make it valuable, along with strategies to adjust, correct, and supplement photos and graphic projects.

- Recognize the basic tools of Photoshop and use them for the desired adjustments and corrections
- Apply techniques to adjust, enhance, supplement, and compose files for marketing materials
- Organize files properly within the Photoshop interface
- Adjust and export images across file types, dimensions, and color

Intermediate Photoshop Course (Self-Paced)

This course focuses on reinforcing and expanding your Photoshop skills with a project-based approach. You will work on real-world projects, from planning and goal-oriented design to final export. As a project, you'll create three unique banners for a fictional construction client.

- Reinforce the fundamental Photoshop tools and apply them effectively for desired adjustments and corrections.
- Use advanced techniques to enhance, adjust, and compose files for marketing materials.
- Incorporate client goals, target audience, and branding into your designs.
- Evaluate and adjust image strategy to meet specific marketing and design objectives.

Introduction to Illustrator Course (Self-Paced)

Learn Adobe Illustrator, the industry-standard tool for professional vector drawing, through practical project-based work. You'll organize files and layers in the Illustrator interface, compose artwork for marketing materials, and export across a range of file types, dimensions, and color modes.

- Identify Illustrator's core tools and apply them to make precise adjustments and corrections
- Apply techniques to adjust, enhance, supplement, and compose files that produce finished marketing materials
- Organize files and layers effectively within the Layers panel and the Illustrator interface
- Adjust and export artwork across varying file types, dimensions, and color modes

Introduction to Illustrator Lab (Self-Paced)

This hands-on lab is paired with Intro to Illustrator. You'll gain real-world, practical experience using Adobe Illustrator — the industry-standard professional vector drawing program — to produce vector art for both print and web design.

- Recognize the basic tools of Illustrator and use them for the desired adjustments and corrections
- Apply techniques to adjust, enhance, supplement, and compose files for marketing materials
- Organize files and layers properly within the layers panel and Illustrator interface
- Adjust and export images across file types, dimensions, and color

Illustrator Intermediate Course (Self-Paced)

Expand your Illustrator skills with intermediate techniques for graphic design. This course concentrates on producing marketing materials, handling files and layers, and exporting images for many different media formats.

- Identify the core tools of Illustrator and put them to use for the adjustments and corrections you need.
- Apply techniques to refine, enhance, supplement, and compose the files that go into marketing materials.
- Build a solid grasp of how to organize files and layers within the Layers panel and the Illustrator interface.
- Adjust and export images cleanly, varying file type, dimension, and color to fit the project.

Introduction to InDesign Course (Self-Paced)

Build your foundation in Adobe InDesign and create professional graphic materials, from brochures to digital publications. This course guides you through the tools, techniques, and workflows that develop your design skills and get projects ready for export.

- Identify the core tools of InDesign and use them for the adjustments and corrections you need.
- Apply techniques to refine, enhance, supplement, and compose the files that go into marketing materials.
- Build a clear understanding of how to organize files and layers within the Layers panel and the InDesign interface.
- Adjust and export images cleanly, varying file type, dimension, and color to fit the project.

Introduction to InDesign Lab (Self-Paced)

Practice desktop publishing in this hands-on lab paired with Intro to InDesign, where you'll add and resize graphics, work with text, draw shapes, and package your work for a commercial printer.

- Recognize the basic tools of InDesign and use them for the desired adjustments and corrections

- Apply techniques to adjust, enhance, supplement, and compose files for marketing materials
- Organize files and layers properly within the layers panel and InDesign interface
- Adjust and export images across file types, dimensions, and color

Intermediate InDesign Course (Self-Paced)

Expand your foundational InDesign skills with intermediate techniques for graphic design. This course walks through advanced methods for crafting professional marketing materials, managing files, and tuning designs for a variety of outputs.

- Identify the core tools of InDesign and put them to use for the adjustments and corrections you need.
- Apply techniques to refine, enhance, supplement, and compose the files that go into marketing materials.
- Build a clear understanding of how to organize files and layers within the Layers panel and the InDesign interface.
- Adjust and export images cleanly, varying file type, dimension, and color to fit the project.

Revit & Twinmotion Interior Rendering Course (Self-Paced)

This course covers the real-time rendering workflow between Autodesk Revit and Epic Games' Twinmotion, focusing on interior rendering. Learn to link Revit models to Twinmotion, apply realistic materials and lighting, and populate scenes with furniture for photorealistic, high-quality renderings. Twinmotion’s real-time features enable you to quickly bring your interior designs to life with rich detail and interactivity.

- Master the Twinmotion interface and navigation tools to efficiently create and manage projects.
- Export and link Revit models to Twinmotion, ensuring real-time synchronization with model updates.
- Apply and customize materials, lighting, and furniture to enhance the realism and visual quality of interior spaces.
- Create multiple camera views and optimize scene composition for impactful renderings.
- Set realistic interior lighting using both natural and artificial sources to elevate mood and visual storytelling.

Revit & Twinmotion Exterior Rendering Course (Self-Paced)

Learn how to move your Revit models into Twinmotion and produce polished exterior visualizations and animations. This course covers real-time linking, materials, lighting, and scene setup so you can deliver photorealistic results for clients and your portfolio.

- Navigate the Twinmotion 2025 interface and use its core tools for efficient project setup and management.
- Import and export Revit and SketchUp models into Twinmotion with real-time synchronization.
- Apply and customize exterior materials, lighting, and landscaping to boost design realism.
- Set up natural and artificial lighting to establish atmosphere and support visual storytelling.
- Build and manage camera views for stronger scene composition and presentation.
- Create and export dynamic animations that clearly convey building designs.

Communication & Connection Course (Self-Paced)

In this course, you'll develop emotional intelligence and stronger communication skills, with a clear focus on diversity, equity, and inclusion (DEI). You'll learn how to build genuine connections, make clear requests, manage conflict, and negotiate effectively. The course also dives into public speaking and body language to help you communicate with greater impact. Designed to boost your problem solving, teamwork, and leadership, you'll engage in group discussions and interactive forums to refine the skills that truly set you apart.

- Build genuine connections and make clear, effective requests
- Develop emotional intelligence and sharpen your communication skills
- Lead with diversity, equity, and inclusion (DEI) at the center of your interactions
- Master conflict management and negotiation strategies that get results
- Learn the art of public speaking and how to use body language to your advantage
- Strengthen your problem solving, collaboration, and leadership skills
- Engage in group discussions and interactive forums to put these essential skills into practice

Self-Management Skills Course (Self-Paced)

This soft skills course for construction professionals covers time management, goal setting, and working more efficiently. You'll learn how to build a positive mindset, prioritize the tasks that move the needle, and make decisions using a proven framework. With a focus on communication, teamwork, and leadership, the course also highlights how ethics and integrity help you build lasting trust. You'll engage in group discussions and connect with your instructor and classmates as you sharpen these essential skills.

- Take a close look at how you spend your time
- Work smarter and improve your everyday efficiency
- Prioritize what truly matters most
- Build a positive mindset and set meaningful career and life goals
- Develop a clear framework for making sound decisions
- Lead with ethics and integrity to build lasting trust

Teamwork, Collaboration & Leadership Course (Self-Paced)

Teamwork, Collaboration, and Leadership will help you build the essential skills that often get overlooked but make a real difference in your ability to solve problems, thrive on teams, and lead others well. The course focuses on planning and running meetings that actually build collaboration, and it teaches you the principles needed to thrive as a team and make decisions together that move ideas forward. You'll also learn how to inspire others by applying the fundamentals of leadership, no matter what position you hold at your organization. Along the way, you'll take part in group discussion forums, connect with your instructor, and message your classmates as you sharpen these skills.

- Run meetings that actually get results
- Build genuine collaboration across your team
- Thrive as a team and make sound decisions together
- Encourage teams to buy into an idea or plan
- Move ideas forward in a group setting with confidence
- Inspire others through strong leadership

OAD Capstone Project (Self-Paced)

OAD Portfolio Course (Self-Paced)

College Algebra Course (Self-Paced)

Work through the core concepts of college algebra — functions, equations, inequalities, and graphing — and build the problem-solving skills that carry across technical and professional coursework. You'll solve linear, quadratic, polynomial, rational, exponential, and logarithmic problems, handle systems of equations and inequalities, and use graphing to analyze algebraic relationships.

- Understand the fundamental concepts of college-level algebra
- Solve problems involving linear, quadratic, polynomial, rational, exponential, and logarithmic functions
- Work with systems of equations and inequalities
- Use graphing techniques to analyze algebraic relationships
- Apply algebra concepts to real-world contexts with accuracy and confidence
- Build problem-solving and critical thinking skills through algebraic methods

College Geometry Course (Self-Paced)

Study Euclidean geometry through shapes, constructions, coordinate geometry, and transformations while strengthening problem-solving and spatial reasoning. You'll analyze points, lines, planes, angles, polygons, and circles, apply concepts of congruence and similarity, and solve problems involving area, volume, and geometric constructions.

- Understand the fundamental principles of Euclidean geometry
- Analyze points, lines, planes, angles, polygons, and circles
- Apply concepts of congruence, similarity, and parallelism
- Solve problems involving area, volume, and geometric constructions
- Use coordinate geometry and transformations to analyze figures
- Build logical reasoning, spatial reasoning, and critical thinking skills

Calculus 1 Course (Self-Paced)

Build a strong foundation in calculus by working through limits, derivatives, and integrals, then applying them to real-world problems in technical and scientific settings. You'll evaluate limits and continuity, differentiate algebraic and transcendental functions, and work with definite and indefinite integrals, including the Fundamental Theorem of Calculus.

- Understand the fundamental concepts of differential and integral calculus
- Evaluate limits and continuity
- Differentiate algebraic and transcendental functions
- Apply derivatives to problems involving rates of change
- Work with definite and indefinite integrals, including the Fundamental Theorem of Calculus

English Composition Course (Self-Paced)

Build stronger writing, reading, and communication skills by planning, drafting, revising, and editing clear, structured documents for academic and professional contexts. You'll produce concise, well-organized writing across a range of situations and complete reports, research-based essays, correspondence, and presentations.

- Develop strategies for planning, drafting, revising, and editing written work
- Write clear, concise, well-structured documents for a range of contexts

- Strengthen critical reading and effective communication skills
- Complete reports, research-based essays, correspondence, and presentations
- Apply proper grammar, documentation, and audience awareness
- Produce polished writing that shows critical thinking and supports academic and professional goals

Technical Writing Course (Self-Paced)

Write clear, organized, and professional technical documents for industry settings by analyzing audiences and structuring complex information for readability. You'll create reports, proposals, instructions, and manuals, and use visuals and document design to produce work that meets workplace standards.

- Analyze audiences and tailor technical documents to their needs
- Organize complex information in a clear, precise, accessible way
- Create professional reports, proposals, instructions, and manuals
- Use visuals and document design to support clarity and usability
- Produce polished documents that meet workplace and industry standards
- Collaborate on technical and professional communication projects

Intro to Sociology Course (Self-Paced)

Examine the foundational concepts, theories, and methods of sociology and how social structures, institutions, and culture shape everyday life. You'll explore the way institutions influence individual and group experience and analyze how culture and social interaction shape behavior.

- Understand the fundamental concepts, theories, and methods of sociology
- Explore how social structures and institutions influence individual and group experiences
- Examine the role of culture and social interaction in shaping behavior
- Analyze how society affects human experience at both the individual and collective level

Communications Course (Self-Paced)

Build the fundamentals of human communication across interpersonal, small group, and public speaking contexts, adapting your style to different audiences and situations. You'll strengthen verbal and nonverbal strategies, practice active listening, and apply conflict-resolution techniques in professional settings.

- Use verbal and nonverbal communication strategies more effectively
- Practice active listening to improve understanding and engagement
- Analyze audiences and adapt communication styles to different situations
- Apply conflict-resolution strategies in personal and professional interactions
- Build confidence and professionalism in presentations and everyday communication
- Understand how human communication works across interpersonal, small group, and public speaking contexts

Art History Course (Self-Paced)

Survey major movements, artists, and works across the history of art while developing visual analysis and critical interpretation skills. You'll study painting, sculpture, architecture, and other media across civilizations and examine the cultural, social, and historical contexts that shape artistic production.

- Identify major movements, artists, and works from prehistoric times to the modern era
- Examine painting, sculpture, architecture, and other media across civilizations
- Analyze works of art using visual and critical interpretation skills
- Understand the cultural, social, and historical contexts that shape artistic production
- Develop a broad appreciation for the enduring significance of art history
- Discuss how art reflects and shapes human experience across global traditions