

Notes for 2019-20 and following:

- **Art History will be offered in alternate years. 2019-20 not offered. 2020-21 course is offered.**

NAME: Musical Theatre - Will be offered in 2019-20. Will not be offered in 2020-21

DEPARTMENT: Fine Arts

PREREQUISITES: None

GRADE LEVELS: 9, 10, 11, 12

CREDITS: 1

DURATION: Semester

DESCRIPTION: Musical Theatre is based on the Indiana Academic Standards for Theatre. Students in this course study the history of musical theatre and its place in today's society. They participate in staging, choreographing, rehearsing, and performing an original or existing musical work. This class may be taught collaboratively among music, theatre, dance, and visual arts faculty. These activities should incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theatre, attend and critique theatrical productions, and recognize the responsibilities and the importance of individual theatre patrons in their community. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized. Counts as a Directed Elective or Elective for all diplomas. Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma.

NAME: Technical Theatre (4244) - Will be offered in 2019-20. Will not be offered in 2020-21

DEPARTMENT: Fine Arts

PREREQUISITES: None

GRADE LEVELS: 9, 10, 11, 12

CREDITS: 1

DURATION: 1 Semester

DESCRIPTION: Technical Theatre is based on the Indiana Academic Standards for Theatre. Students enrolled in Technical Theatre actively engage in the process of designing, building, managing, and implementing the technical aspects of a production. These activities should incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theatre, attend and critique theatrical productions, and recognize the responsibilities and the importance of individual theatre patrons in their community.

NAME: VISUAL COMMUNICATION: Graphic Design
DEPARTMENT: Fine Arts
PREREQUISITES: Introduction 2D
GRADE LEVELS: 10, 11, 12
CREDITS: 1
DURATION: Semester

DESCRIPTION: Visual Communication is a course based on the Indiana Academic Standards for Visual Art. Students in visual communication engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. They create media utilizing graphic design, typography, illustration, and image creation with digital tools and computer technology (Photoshop, Illustrator, and Indesign). Students reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

REQUIREMENTS: Multimedia Sketchbook (9X12)

NAME: Analytical Algebra II
DEPARTMENT: Mathematics
PREREQUISITES: Algebra I and Geometry
GRADE LEVELS: 11, 12
CREDITS: 2
DURATION: Year Long

DESCRIPTION: Analytical Algebra II will focus on the application of mathematics in various disciplines including business, finance, science, career and technical education, and social sciences. This course covers most of the traditional Algebra II standards, but the focus is on the application of algebraic concepts rather than theoretical concepts.

Building on previous work with linear, quadratic, and exponential functions, Analytical Algebra will extend to include polynomial, rational, radical, logarithmic, and other functions. Students will model real-world problems with various functions using and translating between multiple representations. Additionally, students will interpret key features of function models within a given context. Students will build on previous work done with data analysis, statistics, including univariate and bivariate data, and probability.

Additionally, if a student enrolls in Analytical Algebra II to satisfy the Core 40 designation requirement, both the parent and the student must provide consent to the school to enroll in that course. This form informs both student and parent that the enrollment in Analytical Algebra II might affect the student's acceptance into particular postsecondary programs or institutions.

REQUIRED: TI84 GRAPHING CALCULATOR (See Calculator Policy at the beginning of the mathematics department section.)

Note: If a student is planning on taking PreCalculus during high school, the student should take Algebra II. Analytical Algebra II is designed as a terminal course to fulfill the Algebra II requirement for a Core 40 diploma. **A student may not gain credit for both Algebra II and Analytical Algebra II.**

NAME: PTLW Introduction to Engineering and Design

DEPARTMENT: Elective

PREREQUISITES: None

GRADE LEVELS: 9, 10

CREDITS: 2

DURATION: Year-Long

DESCRIPTION: Introduction to Engineering Design is a fundamental pre-engineering course where students become familiar with the engineering design process. Students work both individually and in teams to design solutions to a variety of problems using industry standard sketches and current 3D design and modeling software to represent and communicate solutions. Students apply their knowledge through hands-on projects and document their work with the use of an engineering notebook. Students progress from completing structured activities to solving open ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Ethical issues related to professional practice and product development are also presented.

NAME: PLTW Medical Interventions

DEPARTMENT: Science

PREREQUISITES: Principles of Biomedical Science and Human Body Systems

GRADE LEVELS: 11, 12

CREDITS: 2

DURATION: Year Long

DESCRIPTION: PLTW Medical Interventions is a course that studies medical practices including interventions to support humans in treating disease and maintaining health. Using a project-based learning approach, students will investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students will also study the design and development of various interventions. Lessons will cover the history of organ transplants and gene therapy with additional readings from current scientific literature addressing cutting-edge developments.

NAME: Computer Science II: Special Topics - C#
DEPARTMENT: Practical Arts
PREREQUISITES: Introduction to Computer Science I
GRADE LEVELS: 9-12
CREDITS: 1
DURATION: Semester
DESCRIPTION: Computer Science II: Special Topics C# provides an introduction to programming using the C# (C sharp) language and its integrated development environment. Topics to be covered include the syntax and structure of the C# language; controls, dialog boxes, and other interface tools; menu design; multiple forms; error-trapping; and arrays. Other topics that may be covered include object linking and embedding (OLE); C# for applications; database development using recordsets and data-bound controls; data handling; grids; validation and election; drag and drop; and graphics, and new revisions for interoperability with other languages. THIS COURSE IS ALSO OFFERED FOR DUAL-CREDIT WITH PFW.

NAME: Christian Leadership **FALL SEMESTER ONLY**
DEPARTMENT: THEOLOGY
PREREQUISITES: DEPARTMENTAL APPROVAL
GRADE LEVELS: 12
CREDITS: 1
DURATION: Semester
DESCRIPTION: *Christian Leadership* is a new course for current spiritual leaders within the school to further develop their leadership awareness, knowledge, and skills. The topics and assignments in this class will have direct application to Koinonia and Chapel. Through a study of Christian leadership and worship practices, students will grow in their capacity to be Godly leaders in their school, their homes, their churches, and in society as a whole. **Note: Students taking this class will need to schedule Theological Ethics (formerly known as *Interpersonal Relationships*) in the Spring.**

New Courses 2019-20
Concordia Lutheran High School
[IDOE Course Titles & Descriptions](#)
[IDOE Revisions for Course Titles](#) (January 18, 2019)

NAME: Theology in Media **SPRING SEMESTER ONLY**
DEPARTMENT: Theology
PREREQUISITES: Theological Ethics
GRADE LEVELS: 12
CREDITS: 1
DURATION: Semester
DESCRIPTION: Since, music, television, movies, the internet, and social media impact how we understand and view the world around us, this class will teach students the importance of maintaining a biblical worldview as they consume these various forms of media. This class will strengthen the theological foundation necessary for students to discern the truth amidst the impact of constant and immediate news, entertainment, and persuasive messages from a variety of media sources. **Note: Students taking this class will need to schedule Theological Ethics (formerly known as *Interpersonal Relationships*) in the Fall.**

NAME: History and Development of Music in Worship **SPRING SEMESTER ONLY**
DEPARTMENT: Theology
PREREQUISITES: Theological Ethics
GRADE LEVELS: 12
CREDITS: 1
DURATION: Semester
DESCRIPTION: *History and Development of Music in Worship* will study the history and ongoing relationship of the church and music. Students will discover how theological language has been expressed with music throughout the history of the church and within a variety of cultures. This class will also discover how music can shape and form theological thought. **Note: Students taking this class will need to schedule Theological Ethics (formerly known as *Interpersonal Relationships*) in the Fall.**
