

2019 – 2020 CURRICULUM GUIDE



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Mission Statement

Chaminade College Preparatory School, an independent, Catholic Day and Resident school, sponsored by the Marianist Province of the United States, is dedicated to developing the inherent spiritual, intellectual, emotional and physical potential of young men in Grades 6-12 so they are prepared for success in college and life and ultimately become the men the world needs them to be.

This is accomplished by a commitment to the Five Characteristics of Marianist Education:

Educate in Formation in Faith

Provide for an Integral, Quality Education

Educate in Family Spirit

Educate for Service, Justice, Peace and the Integrity of Creation

Educate for Adaptation and Change

Goal	Objectives
TO EDUCATE FOR FORMATION IN FAITH	<ol style="list-style-type: none"> 1. To encourage and help all members of the Chaminade community to bear witness with a personal and committed faith that touches the heart 2. To promote a faith and culture dialogue which illumines reality from the perspective of the Catholic world view 3. To form students in the Gospel values and Christian attitudes 4. To elicit a personal commitment to a life of faith 5. To present the Marianist heritage and charism as a viable and dynamic approach to living the Gospel 6. To support and encourage those members who have chosen to take the Lay Marianist vows 7. To offer graduates the opportunity to continue their faith formation at one of the 3 Catholic Marianist universities
TO PROVIDE AN INTEGRAL, QUALITY EDUCATION	<ol style="list-style-type: none"> 1. To promote quality education of the whole person 2. To provide a broad and coherent curriculum 3. To provide a well-formed, professional administration, faculty and staff 4. To develop respect for every person as a daughter or son of God, unique and individual 5. To develop an interior spirit and self-knowledge 6. To develop a concern for global and local issues of culture and ecology 7. To continue to utilize advancements in technology as they enhance the educational process 8. To utilize the school schedule to enhance educational and extracurricular activities 9. To foster a diverse faculty and staff as well as a diverse student body 10. To provide fiscal stability 11. To augment our physical facilities to provide for current and future needs 12. To create a favorable environment for a collegial approach to education 13. To offer graduates the opportunity to continue their

	educational pursuits at one of the 3 Catholic Marianist universities
TO EDUCATE IN FAMILY SPIRIT	<ol style="list-style-type: none"> 1. To cultivate interpersonal relationships characterized by openness, respect, integrity and dialogue 2. To form an educational community with collaborative structures and processes 3. To express authority as loving and dedicated service 4. To promote a culture of kindness to bring about a sense of belonging 5. To invite and encourage graduates to continue in the charism of family spirit by attending one of the 3 Catholic Marianist universities
TO EDUCATE FOR SERVICE, JUSTICE, PEACE AND THE INTEGRITY OF CREATION	<ol style="list-style-type: none"> 1. To promote a sense of stewardship for all of God's creation 2. To educate for solidarity, justice, and peace 3. To promote the sacredness of human life in all stages and the inherent dignity of all people 4. To promote the dignity and rights of women and minorities 5. To encourage participation in service programs which attend to the poor and marginalized 6. To address the increasing cost of Catholic higher education by promoting the possibility of early entry into one of the 3 Catholic Marianist universities.
TO EDUCATE FOR ADAPTATION AND CHANGE	<ol style="list-style-type: none"> 1. To educate to adapt to an ever-changing world 2. To educate to accept and respect differences in a diverse society 3. To develop critical thinking skills in the search for Truth 4. To be open to local and global contexts through both classroom and experiential learning 5. To learn to respond and lovingly articulate Catholic teaching when presented with secular thinking 6. To be keenly aware and proactive regarding the students realistic opportunity to pursue their higher education at a Catholic Marianist university

INTRODUCTION

The curriculum of Chaminade College Preparatory School is Marianist in nature. The guiding philosophy and pedagogy of our academic studies is a testament to the foundational charism of Blessed William Joseph Chaminade. As we move Chaminade's academic program into the twenty-first century, our educational vision to intrinsically link and inherently enrich its future success must be aimed at the Five Characteristics of Marianist Education. Catholic educational ministry remains one of the most significant ministries of the Church and the Marianist tradition of educating our young men remains Chaminade's most distinctive mission.

FIVE CHARACTERISTICS OF MARIANIST EDUCATION

The Five Characteristics of Marianist Education listed below provide a specific character and authentic spirit. In this spirit, Chaminade strives to:

◆ **Educate for Formation in Faith**

"From the first moment that a student sets foot in a Catholic school, he or she ought to have the impression of entering a new environment, one illumined by the light of faith and having its own unique characteristics."

The Congregation for Catholic Education, *The Religious Dimension of Education in a Catholic School*, (7 April, 1988), no. 25.

◆ **Provide an Integral, Quality Education**

"Education is more than the provision of education and instruction. It is the awakening of human creative potential; it is the building of endogenous capacities; it is forging attitudes of tolerance and understanding; it is providing individuals with the ability to master their own destiny."

Federico Mayor (Director-General of UNESCO), "Education, Key to the Future," *The UNESCO Courier*, December 1994, p.35.

◆ **Educate in Family Spirit**

"Essential to any Marianist school has been one of its characteristic virtues: Family Spirit. Through the loving concern of the teachers, the young people experience a strong community of faith. Thus, the school itself can develop into a community of faith."

Vision and Journey, Document of the General Chapter of 1986, no. 31.

◆ **Educate for Service, Justice, Peace and the Integrity of Creation**

"Preferable a thousand times over are those methods which form youth to teamwork and mutual support. Those who train students would be aware of that aspect of social conscience, which is so regularly ignored among us."

F. Armentia, *Nuestros chicos...y nosotros* (Madrid: Ediciones, S.M., 1965), p. 335.

◆ **Educate for Adaptation and Change**

"A school ought to be continually revising its methods, bearing in mind the complexity and instability of the real world. The development of new circumstances presupposes on the part of educators a calm affectivity and respectful humility in the face of truth."

Paul J. Hoffer, SM, *Pedagogie Marianiste* (Paris, 1956), p. 113.

GENERAL ACADEMIC INFORMATION

The information contained in this curriculum guide should be used by the Chaminade student and his parents to make intelligent choices about a program of studies. All course information is subject to change if enrollment figures or staffing needs change. Students will be notified and asked to make alternate course selections.

GRADUATION REQUIREMENTS

Courses offered at Chaminade are designed for the college/university-bound student. The requirements for receipt of a diploma from Chaminade College Preparatory School are:

<u>Academic Discipline</u>	<u>Credits</u>
Theology*	4.0
Classical & Modern Languages	2.0
English	4.5
Mathematics	3.0
Physical Education	2.0
Science	3.0
Social Studies	4.0
Fine Arts	1.0
Practical Arts	1.0
Fine Arts or Practical Arts**	.5
Electives	5.0
Total:	30

*Each student must complete a required number of "Christian Service Hours" to meet graduation requirements.

** Each student must complete an additional .5 unit of EITHER Fine Arts or Practical Arts.

COURSE SELECTIONS

College and universities base their acceptance of students on how well the student performs in high school and his program of studies. Historically, 100% of Chaminade graduates go to college/university. Therefore, the Chaminade curriculum is designed to prepare young men for a positive and successful college experience.

MIDDLE SCHOOL CURRICULUM

Chaminade's sixth, seventh, and eighth grade curriculum consists and reflects all nine academic disciplines. The coherent program of studies allows the middle school student a smooth transition into Chaminade's secondary program.

HIGH SCHOOL CURRICULUM

The high degree of balance and congruence between the middle and secondary school curriculums promotes effective mastery of knowledge, skills, critical reasoning, and freedom of inquiry.

HONORS COURSES

Honors courses are for students who have demonstrated a high degree of skill, competency, and achievement in a given subject area. These courses are taught more intensely with emphasis on quantity and depth of material learned. Students enter Honors courses only in their strongest academic areas. The following academic departments include Honors courses: Theology, English, Languages, Mathematics, Science and Social Studies. Course prerequisites indicate criteria for eligibility.

COLLEGE CREDIT COURSES

Advanced College Credit Courses and Advanced Placement Courses provide opportunity and academic excellence to the Chaminade high school student with college credit. College credit courses fall into two different categories: a.) ACC courses that have been approved by various local colleges/universities; and, b.) AP courses designated by the College Board. ACC/AP courses are transferable to most colleges/universities. Students are advised to check with our College Counselors on all ACC/AP courses.

ADVANCED COLLEGE CREDIT COURSES

ACC are taught in affiliation with St. Louis University's 1818 program and the University of Missouri, St. Louis. Chaminade ACC Faculty is Adjunct Instructors that are highly trained and accountable in maintaining college/university standards. Each college/university sets student grading assessments and evaluations. An exceptional freshmen/sophomore/junior/senior must maintain exceptional achievement in order to be awarded credit. Chaminade students registering for ACC courses are rewarded with full access to UMSL and SLU campus libraries. Student on-line registration for ACC courses occurs in August/September and January/February on Chaminade's campus. STEM Science Technology Engineering and Mathematics (PLTW) Project Lead the Way courses are awarded advanced college credit by PLTW university affiliates. CISCO Technology Academy courses are awarded advanced college credit through St. Louis Community College - Meramec.

ADVANCED PLACEMENT COURSES

The AP College Board curriculum is offered to sophomores, juniors and seniors. AP courses are the equivalent of regular college courses. Students in these courses take the Advanced Placement Exam in May of each year. Most universities accept a score of 3 or higher as credit. Advanced Placement Exams are solely administered to students who have enrolled and successfully completed the Advanced Placement course on Chaminade's campus. There are both optional and mandatory AP courses. The Classical and Modern Language Department, English Department, Fine Arts Department, Mathematics Department, Practical Arts Department, Science Department, and Social Studies Department offer AP courses.

ADVANCED PLACEMENT INTERNATIONAL DIPLOMA

The AP College Board International Diploma is offered to students who demonstrate outstanding academic achievement on advanced placement exams across several disciplines. To earn an Advanced Placement International Diploma, a student must earn grades of 3 or higher on at least five AP Exams in the following content areas: 1) Two AP Exams from two different languages selected from the English and world languages areas; 2) One AP Exam designated as offering a global perspective: AP World History, AP European History, AP Government and Politics, AP Government Comparative; 3) One AP exam from the sciences or mathematics content areas; and, 4) One additional exam from among any content area except English and world languages.

ADVANCED PLACEMENT SCHOLAR AWARDS

The AP College Board recognizes students who have earned AP Scholar Awards on the basis of their outstanding academic performance on AP Exams. Award notifications and certificates are sent directly to the students. Award classifications include: AP Scholar, AP Scholar with Honor and AP Scholar with Distinction Award, State AP Scholar and National AP Scholar.

STUDENT INSTRUCTIONAL MATERIALS AND EVALUATIONS

The Chaminade student will be actively engaged in a myriad of classroom experiences that promote diverse means of teaching and learning. The following can be used as a guide for overall student success: course syllabi, textbooks, workbooks, periodicals, handouts, group learning activities, oral presentations, paideia/socratic seminars, essay reading/writing, film/video presentations, academic portfolios, research projects, student journals, interactive video conferencing, virtual reality simulations, web tools, 3D design and printing, virtual portfolios and student blogs. The Chaminade Marianist educator employs a variety of student assessments. Steady and on-going student evaluations are monitored and may include: tests, exams, quizzes, textbook and workbook assignments, library work,

research, homework assignments, written projects, class participation, oral presentations, book reviews, video review, research papers, class discussions, cooperative group presentations, Internet work, in-lab projects, peer mentoring, and off-campus field-based projects.

POLICY REGARDING COURSE CHANGES

Selection of courses should be done only after serious, careful, and thoughtful consultation among student, parents, faculty, and counselors. Once courses are selected by the students and their parents and approved by the Academic Dean, students are not permitted to change course selections. Dissatisfaction with a course or teacher, academic difficulties in a course, displeasure with a schedule, and a change of mind are not valid reasons for requesting a change of course.

No course can be dropped from a student's schedule once a class begins except for serious and compelling reasons. If a student feels there are serious and compelling reasons he should consult with his House Counselor, College Counselor and Administration.

THEOLOGY DEPARTMENT

Mission Statement: The mission of the Theology Department is to proclaim the Good News of Jesus Christ and, through the Roman Catholic Marianist tradition, invite students to embrace Christian discipleship.

Vision Statement: Theology Department will, by being attuned to the needs and concerns of students, foster a Marianist community that is the Body of Christ. The Theology Department seeks to form men who, through theological reflection and discourse, are dedicated to Mary, the Blessed Mother, prayer, and acts of loving service to the Family of God.

Department Chairperson: Mr. Greg Miller Ext. 1203 Email: gmliller@chaminade-stl.org

MIDDLE SCHOOL COURSES

FOUNDATIONS OF SCRIPTURE

THE 630

Level: 6

Duration: Two Semesters - 1 Credit

Description: The subject of this course is God's saving love as it is revealed in Sacred Scripture, particularly the Old Testament. Students explore the diverse cultures of the ancient Hebrew and early Christian worlds. Vocabulary, Biblical reading, and correct pronunciation of terms in the Scriptures are emphasized. Students are encouraged to write short essays after doing research appropriate to the grade level.

RELIGIOUS BELIEF AND THE LIFE OF CHRIST

THE 730

Level: 7

Duration: Two Semesters - 1 Credit

Description: This course introduces students to the person of Jesus Christ in Scripture and Tradition. Students learn about the four Gospels, the seven sacraments, and the moral life to which Jesus Christ calls all men and women.

ROMAN CATHOLIC CHRISTIANITY

THE 830

Level: 8

Duration: Two Semesters - 1 Credit

Description: In this survey course of Catholic Church history students will study the origin of Christianity, events influencing its expansion, its presence in various human cultures and how its interaction with those cultures has consistently stimulated mutual growth. The development of Tradition, Institution, Sacred Scripture, and Doctrine, along with other issues influencing Church life, its position in the world, and its continuous progress are examined in historical and cultural context from ancient to modern times.

HIGH SCHOOL COURSES

THE REVELATION OF JESUS CHRIST IN SCRIPTURE

THE 130

Level: 9

Duration: One Semester - ½ Credit

Description: Students are introduced to the Bible and instructed in reading it as the Word of God written by inspired humans in particular times, places, and cultures and having historical, allegorical, moral, and eschatological meaning for people in all times and places. The role of Mary in the three stages of Revelation is emphasized.

WHO IS JESUS CHRIST

THE 131

Level: 9

Duration: One Semester - ½ Credit

Description: Students are introduced to the challenges and blessings of the Church's sexual ethics and to Jesus Christ as the Word of God, the second person of the Holy Trinity, the ultimate Revelation of God, Our Savior, and

our moral exemplar and teacher.

THE MISSION OF JESUS CHRIST

THE 230

Level: 10

Duration: One Semester - ½ Credit

Description: Students learn about the eternal plan of God to accomplish the happiness of humans, beginning with the first man and woman, continued with the Israelites, and ultimately accomplished in the life, death, and resurrection of Jesus Christ. Discipleship is discussed in the light of this plan, and Mary is presented as the exemplar for following Christ.

ECCLESIOLOGY AND CHURCH HISTORY

THE 231

Level: 10

Duration: One Semester - ½ Credit

Description: Students learn about the sacred nature of the Church as the living body of Jesus Christ and explore her complex nature as simultaneously divine and human, both the means and the goal of God's plan. Students learn about the Marks of the Church and the role of the Church in the world, as continuing the mission of Christ, as well as the role of the Family of Mary in the Church according to the vision of Blessed William Joseph Chaminade and the Society of Mary.

ACC INTERRELIGIOUS ISSUES

THE 370

ACC: University of Missouri - St. Louis

Level: 11

Duration: One Semester - ½ Credit

Description: Students learn how the Catholic Church relates to and understands non-Christian world religions. A number of traditions are examined, including Hinduism, Buddhism, Islam, and Judaism.

LIFE IN JESUS CHRIST

THE 330

Level: 11

Duration: One Semester - ½ Credit

Description: Students engage questions about "What is good?" and learn the moral concepts and precepts which guide the lives of Christ's disciples.

CALL OF CHRIST

THE 430

Level: 12

Duration: One Semester - ½ Credit

Description: Students study the characteristics of living a Christian lifestyle as a response to the universal call to sainthood lived out in the traditional vocations. Students learn the relationships between vocations, individual happiness, and the common good. Blessed Father Chaminade's spirituality is presented as an authentic way to follow the example of Mary in being like Christ. The Sacraments are studied as they relate to happiness as the gift of communion with God. Each of the seven sacraments is studied as based in Scripture and foreshadowed by natural human symbols and in the Old Testament. Doctrinal Teachings, historical development, ritual elements, and the effects of each Sacrament are investigated.

ACC FOUNDATIONS OF THEOLOGY

THE 470

ACC: St. Louis University 1818

Level: 12

Duration: One Semester - ½ Credit

Description: This is St. Louis University's introductory course in Theology. Students learn the nature of theological investigation and examine foundational elements of the Catholic intellectual tradition. Students acquire the fundamental skills and vocabulary for theological discussion and research, learn the major theological and historical components of Catholic teachings, and practice reading and interpreting Scripture.

ACC MAKING CHRISTIANITY CREDIBLE

THE 471

ACC: St. Louis University 1818

Level: 12

Duration: One Semester - ½ Credit

Description: This course will orient students to the heart of Christian teaching: its account of God, Jesus Christ and the Holy Spirit. This course will be organized according to the Apostles' Creed and centered around the famous five theological orations preached by Gregory of Nazianzus. The course will be taught to a thesis that will be revisited: that Christian doctrine matters for life.

ACC AN EXPLORATION OF FAITH AND REASON THROUGH MATH AND SCIENCE

THE 472

ACC: St. Louis University 1818

Level: 12

Duration: One Semester - ½ Credit

Description: This course will take an interdisciplinary approach to exploring the intermingling between faith and reason in the pursuit of Truth. Students will learn concepts and ideas from math and science that are particularly effusive of theological connections but not typically covered in the high school curriculum (for example: fractal geometry, infinity, cosmology). This exploration will be placed in the historical and present context of the Catholic perspective on faith and reason, including especially that of St. Thomas Aquinas, shedding light on the false dichotomy between faith and reason promoted by a secular culture.

ACC SERVANT LEADERSHIP

THE 473

ACC: St. Louis University 1818

Level: 12

Duration: One Semester - ½ Credit

Description: This course is designed for seniors to develop a better understanding for the background leadership practice of "servant leadership". This course is organized for students to explore their innate leadership styles, personality traits, personal strengths and other gifts so that they can live with greater purpose and authenticity. In addition, this capstone leadership course will offer new ways to practice our school's motto, "Esto Vir" and develop an appreciation for humility, love and service for others.

ESL THEOLOGY

EST 100

Level: 9, 10, 11

Duration: Two Semesters - 1 Credit

Prerequisite: A first-year international student; department chairperson approval.

Description: Students in ESL Theology will be introduced to the general concepts of theology, as well as the foundational elements of the Church. The students' understanding of the Church will center on the four marks of the Church and the defining stories of the Bible. The distinctive doctrines of Catholic Theology, Creation, the Trinity, the Incarnation, the Redemption of mankind, will complete their understanding of Catholic theology. This course will improve the students' reading, writing, and speaking skills through activities that challenge the students in both language and content.

CLASSICAL AND MODERN LANGUAGES DEPARTMENT

Mission Statement: The mission of the Classical and Modern Languages Department, within the Catholic Marianist tradition, is to educate students in Blessed William Joseph Chaminade's vision of the "universal apostolate" and to cultivate global citizens, effective cross-cultural communicators, and life-long learners.

Vision Statement: The Classical and Modern Languages Department seeks to cultivate life-long learners with the critical skills and cultural understanding necessary to effectively communicate in the target language. The Department creates global citizens through interactive exposure in the classroom, immersive service, and experiential education abroad. Day and international students are encouraged to interact, make connections, and foster relationships. Students gain wisdom and understanding through department-sponsored events that draw awareness to the larger global community and promote dynamic participation in the world.

Department Chairperson: Ms. Carmen Gruchalla Ext. 1282 Email: cgruchalla@chaminade-stl.org

CHINESE LANGUAGE & CULTURE PROGRAM

CHINESE 7

CHI 730

Level: 7

Duration: Two Semesters - 1 Credit

Description: This course will focus on high frequency structures through Listening, Speaking, Reading and some Writing. The students will acquire language through Teaching with Comprehensive Input (TCI), story-telling and reading (TPRS) and interactive classroom activities. The expectation is that students will be able to communicate by expressing themselves in a practical and effective manner. Students will also be exposed to and gain an appreciation of the Chinese culture, designed to encourage continuous learning. There will be approximately 120-150 Chinese characters taught in the first year.

CHINESE 8

CHI 830

Level: 8

Duration: Two Semesters - 1 Credit

Prerequisite: CHI 730 or equivalent one-year Chinese study in middle school.

Description: This course will continue high frequency structures through Listening, Speaking, Reading and some Writing. The students will acquire language through Teaching with Comprehensive Input (TCI), story-telling, reading (TPRS) and interactive classroom activities. The topics cover daily life routines, important time expressions, hobby/sports, school life, and shopping. Students will be exposed to and gain an appreciation of the Chinese culture which is designed to encourage continuous learning. There will be additional 150 Chinese characters taught in the second year.

CHINESE 1

CHI 130

Level: 8, 9, 10, 11

Duration: Two Semesters - 1 Credit

Description: Learning a new language brings new life experiences. This course is the one year equivalent of the two-year Middle School Chinese language program. This course is designed for students with no prior knowledge in Standard Mandarin Chinese. The students will acquire language through Teaching with Comprehensive Input (TCI), storytelling and reading (TPRS) and interactive activities. The students will be able to communicate by expressing themselves in a practical and effective manner. Reading, listening, writing and speaking are the four language skills nurtured in this course. Students will develop the ability to conduct simple conversations relating to daily life experiences such as self-introduction, family, friends, pets and their preferences. There will be approximately 200-250 Chinese characters taught in the first year. The course also includes introduction to Chinese geography, economics, politics, customs and culture.

ACC HONORS CHINESE 2

CHI 270

ACC: University of Missouri - St. Louis**Level:** 9, 10, 11, 12**Duration:** Two Semesters - 1 Credit**Prerequisite:** Language placement process for new incoming students; successful completion of CHI830 or CHI 130.**Description:** In this course students will learn more complex grammar concepts and additional (200-250) characters and their combinations to acquire broader knowledge of the language through Teaching with Comprehensive Input (TCI), story-telling and reading (TPRS) and interactive classroom activities. Students will learn to conduct conversations relating to daily life experiences, such as school life, transportation, weekend plans and their living environment. Students will continue to practice and develop proficiency in four language skills (listening, speaking, reading, and writing), all the while further exploring Chinese culture. Class participation by utilizing the target language is encouraged to prepare for real-life situations.**ACC HONORS CHINESE 3****CHI 370****ACC: University of Missouri - St. Louis****Level:** 10, 11, 12**Duration:** Two Semesters - 1 Credit**Prerequisites:** CHI 270**Description:** In this course, an immersion teaching strategy will be reinforced to develop and strengthen proficiency in the four language skills (listening, speaking, reading, and writing). The students will learn complex grammar concepts, 250-300 characters (with combinations) and will develop an extended culture competency. The topics cover transportation, ordering food/drinks and discussing the weather/climate. By the end of this course, the students will reach at the Intermediate Low to Mid-Level as described in the American Council of Teaching Foreign Languages (ACTFL) Proficiency Guidelines.**ACC HONORS CHINESE 4****CHI 470****ACC: University of Missouri - St. Louis****Level:** 11, 12**Duration:** Two Semesters - 1 Credit**Prerequisites:** CHI 370**Description:** In this course, a natural and immersion learning environment will be established to develop and strengthen proficiency in the four language skills (listening, speaking, reading, and writing). The course will focus on increasing listening comprehension, improving conversational ability, developing composition skills, and recognizing and using a wider array of characters. The topics cover travel plans/experience, college life, making comparisons, getting to know new environments and Chinese traditions. By the end of the course, the students will reach the Intermediate Mid-Level as described in the American Council of Teaching Foreign Languages (ACTFL) Proficiency Guidelines. More complicated assignments will be used to prepare students for college-level Chinese study.**ENGLISH AS A SECOND LANGUAGE PROGRAM****ENGLISH AS A SECOND LANGUAGE (ESL)****ESL 101****Level:** 6, 7, 8**Duration:** Two Semesters - 1 Credit**Description:** This is a required course for all international students entering 6th, 7th, or 8th grades. This course is designed to meet the needs of a diverse international student population. The course assists in the student's academic success by improving his ability to produce accurate and understandable English in the classroom. A community language learning approach is used to reinforce and improve reading, writing, listening, and speaking of English. The course uses kinetic, visual, and auditory methods to teach English and American culture to the non-native speaker. An appropriate language assessment tool will be administered as a pre and post assessment.**ENGLISH AS A SECOND LANGUAGE (ESL)****ESL 102****Level:** 9, 10, 11, 12**Duration:** Two Semesters - 1 Credit

Description: This is a required course for all international students entering 9th, 10th, and 11th grades. This course is designed to meet the needs of a diverse international student population. This course assists in the student's academic success by improving his ability to produce accurate and understandable English in the classroom. A community language learning approach is used to reinforce and improve reading, writing, listening, and speaking of English. This course uses kinetic, visual, and auditory methods to teach English and American culture to the non-native speaker. An appropriate language tool will be administered as a pre and post assessment.

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL 200

Level: 9, 10, 11, 12

Duration: Two Semesters - 1 Credit

Description: Placement in this course is determined by recommendation of the ESOL instructor. This advanced second level course continues to assist in the student's academic success by improving his ability to produce accurate and understandable English in the classroom. Material from core subjects will be used to expand the student's knowledge of English. American fiction books will be used to increase knowledge of vocabulary, comprehension, writing skills, and American culture. An appropriate language assessment tool will be administered as a pre and post assessment.

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL 300

Level: 9, 10, 11, 12

Duration: Two Semesters - 1 Credit

Description: Placement into this course is determined by recommendation of the ESOL teacher. This advanced third level course continues to assist in the student's academic success by improving his ability to write in English. A community language learning approach is used to reinforce and improve reading, writing, listening, and speaking of English. Material from core subjects will be used to expand the student's knowledge of English. American fiction books will be used to increase knowledge of vocabulary, comprehension, writing skills, and American culture. An appropriate assessment tool will be administered as a pre and post assessment.

ESL THEOLOGY

EST 100

Level: 9, 10, 11, 12

Duration: Two Semesters - 1 Credit

Prerequisite: A first-year international student

Description: Students in ESL Theology will be introduced to "religion" and "god" as they relate to the origin, meaning, and destination of human life, with ideas and beliefs that are shared across cultures. Then, through study of Scripture and Tradition they will become familiar with the Catholic understanding of the Father of Jesus Christ as the one God who authentically answers all of these concerns. Students will learn about salvation history, the Incarnation, the Trinity, and the nature of the human person. This course will improve the students' reading, writing, listening, and speaking skills through activities that challenge the students in both language and content.

ESL COMPOSITION

ESC 100

Level: 9, 10, 11, 12

Duration: One Semester - ½ Credit

Prerequisite: A first-year and/or second-year international student

Description: This half credit course is open to international students and focuses on the practical application of locating and correcting common sentence errors and developing a more mature writing style. This process is intended to develop the correctness and maturity of the student's writing style, as well as introduce the MLA format. Simultaneously, students produce four academically useful expository essay patterns: explanatory, contrast, research, and argumentative. In addition to teaching organizational patterns, the study emphasizes quality of content and convincing, detailed development. Throughout the study, breaks between sections are used to review correct usage and mechanics as used on the ACT and SAT. The composition course is required of all international students during their sophomore year or during their junior year if they first enroll as juniors.

ESL SOCIAL STUDIES

ESS 100

Level: 9, 10, 11, 12

Duration: Two Semesters - 1 Credit

Prerequisite: A first-year international student

Description: This course is a traditional survey course of United States' history from an American perspective and examines the growth of the United States from its earliest settlers to modern times. It is open to first-year international students and will utilize appropriately leveled readings which support both content and language learning. Special emphasis is placed on the founding principles of the United States, and examining how those principles have guided us through our nation's still young history. While studying America's great contributions for the world, we maintain a global awareness, along with an appreciation of cultural diversity and gender issues. Public speaking, research, and writing are emphasized along with critical thinking. When applicable, and in conjunction with the residence hall activity schedule, efforts will be made for the class to leave campus and experience history and historical places first-hand. The student will be made more aware of himself and his role in his community and society as he learns to think as an individual. Students are encouraged to discuss the problems of society so that they will develop an appreciation of how these problems have been managed.

FRENCH LANGUAGE & CULTURE PROGRAM

FRENCH 7

FRE 730

Level: 7

Duration: Two Semesters - 1 Credit

Description: This course is designed as an introduction to the grammar structures and basic vocabulary of the French language, while also providing a global overview of French and French-speaking cultures. The course develops proficiency in the four language skills (listening, speaking, reading and writing) through meaningful, task-based instruction, applying concepts to realistic contexts. Students will take part in research projects, in-class presentations and online videos/labs to enhance cultural awareness in the classroom. The D'accord textbook series is used in this course.

FRENCH 8

FRE 830

Level: 8

Duration: Two Semesters - 1 Credit

Description: This course continues the development of proficiency and core skills (speaking, listening, reading, and writing) in the French language. Students at this level will be expected to engage exclusively in the target language. Speaking and writing skills will be emphasized through research projects, in-class presentations and daily participation. Cultural awareness is advanced through reading authentic materials and engaging with online videos/audio resources. The D'accord textbook series is used in this course.

FRENCH 1

FRE 130

Level: 8, 9, 10, 11

Duration: Two Semesters - 1 Credit

Description: This course is designed as an introduction to basic vocabulary and grammar concepts of the French language at the high school level. While exposing students to French culture in France and the French-speaking world, the course helps them develop proficiency in the four language skills (listening, speaking, reading, and writing). Verbs are used in the present tense and the immediate future. Students are strongly encouraged to involve themselves in our French Exchange Program.

FRENCH 2

FRE 230

Level: 9, 10, 11, 12

Duration: Two semesters - 1 Credit

Prerequisite: FRE 130; FRE830 with 85% or higher for CCP MS students; placement process for new students.

Description: Students further develop the language skills in the target language acquired in French 1. They expand their knowledge of French culture and the French-speaking world through videos with authentic characters and situations, internet research, and projects. Verbs tenses used in French 1 are continued while introducing some irregular verbs, the passé composé, and the imperfect tense. At this level, students are eligible for induction into the French National Honor Society. Students are strongly encouraged to involve themselves in our French Exchange

Program.

FRENCH 3

FRE 330

Level: 10, 11, 12

Duration: Two Semesters - 1 Credit

Prerequisite: Language placement process for new incoming students.

Description: Through authentic award-winning short-subject films, students will further develop and strengthen proficiency in the four language skills, as well as expand their cultural competency. French conversation is incorporated into the class throughout the year and the students are expected to use only French in the classroom. Verbs are used in the present, the future, the passé composé, the imperfect, the imperative, the conditional, and the subjunctive. Class is conducted in French. At this level, students are eligible for induction into the French National Honor Society. Students are strongly encouraged to involve themselves in our French Exchange Program.

ACC HONORS FRENCH 3

FRE 370

ACC: St. Louis University 1818

University of Missouri - St. Louis

Level: 10, 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: Language placement process for new incoming students; teacher recommendation and department chairperson approval.

Description: Through authentic award-winning short-subject films, students will further develop and strengthen proficiency in the four language skills, as well as expand their cultural competency and critical thinking skills. In addition, students will read and study a beloved French text, *Le Petit Prince*. French conversation is incorporated into the class throughout the year; and students are expected to use only French in the classroom. Verbs are used in all simple tenses, the passé composé, and the plus-que-parfait. Class is conducted in French. At this level, students are eligible for induction into the French National Honor Society. Students are strongly encouraged to involve themselves in our French Exchange Program.

FRENCH 4

FRE 430

Level: 12

Duration: Two Semester - 1 Credit

Prerequisite: Language placement process for new incoming students.

Description: This course introduces students to different aspects of French history and culture through 19th and 20th century literary readings and artwork. While the four language skills are incorporated in class, an emphasis is placed on writing. As always, French conversation is incorporated into the class throughout the year. All simple verb tenses are reviewed and compound tenses are added. The text *D'accord 3* is used to hone grammatical skills. Class is conducted in French and students are expected to use only French in the classroom.

AP/ACC FRENCH LANGUAGE & CULTURE

FRE 470

AP: Advanced Placement College Board

Optional AP French Language & Culture Exam is available.

ACC: St. Louis University 1818

University of Missouri - St. Louis

Level: 12

Duration: Two Semesters - 1 Credit

Prerequisites: Language placement process for new incoming students; current teacher recommendation and department chairperson approval.

Description: This course is designed as a culmination of students' French studies in high school in which they prepare themselves to take the AP French Language & Culture Exam. It is an exploration of culture in both contemporary and historical contexts of the francophone world. The course develops students' awareness and appreciation of the products, practices and perspectives of francophone culture. This course is also designed to prepare students to communicate proficiently through the three modes of communication (interpersonal, interpretive and presentational) as defined in the "Standards for Foreign Language Learning in the 21st Century". For this

reason, the course will be conducted exclusively in French.

GREEK LANGUAGE & CULTURE PROGRAM

ACC ANCIENT GREEK I

GRE 470

ACC: St. Louis University 1818

Level: 11, 12

Duration: Two Semesters - 1 Credit

Description: This course is intended to be an introductory course in Classical and Koine Greek. It is intended to enable students to read relatively easy Classical and Koine Greek sentences. The students will be exposed to Classical authors as well as to the Greek text of the New Testament. In addition to language and grammar, this course will address the culture of Ancient Greek and its continuing influence on today's society.

ACC ANCIENT GREEK II

GRE 471

ACC: St. Louis University 1818

Level: 12

Duration: Two Semesters - 1 Credit

Description: This course is continuations of Greek I. Students are introduced to more difficult Greek grammar. There is a deeper appreciation of Greek history and culture as students begin reading adapted passages from Ancient Greek historians Thucydides and Herodotus, as well as lengthier excerpts from the Greek New Testament.

LATIN LANGUAGE & CULTURE PROGRAM

LATIN 7

LAT 730

Level: 7

Duration: Two Semesters - 1 Credit

Description: Through the study of Latin vocabulary and grammar as well as Roman history and culture, students develop a foundation of skills and habits to ensure future success in the Latin language. Special attention is given to drawing cultural and linguistic connections between the Roman world and the world in which we live, to stimulate curiosity and strengthen deductive and reason skills.

LATIN 8

LAT 830

Level: 8

Duration: Two Semesters - 1 Credit

Prerequisites: LAT 730 or Language placement process for new incoming students.

Description: This course is designed to build upon the full year of Latin completed in seventh grade. Students will expand their introduction to Latin grammar, syntax, Roman mythology, history, and culture.

LATIN 1

LAT 130

Level: 8, 9, 10, 11

Duration: Two Semesters - 1 Credit

Description: This course is designed primarily for incoming eighth and ninth graders who did not take LAT 730, and who must catch up with their peers. This course will introduce incoming students to Latin grammar and syntax at a somewhat accelerated pace. This will prepare students to continue their Latin studies in high school or to take high school level courses in one of the modern languages.

LATIN 2

LAT 230

Level: 9, 10, 11, 12

Duration: Two Semesters - 1 Credit

Prerequisite: LAT 130

Description: The course continues the introduction of Latin grammar. The course shifts from memorization of forms to the proper translation of clauses and syntax. Historical essays present the culture and history of the world of ancient Rome and the turbulent end of the Republic along with the beginning of the Empire and the reign of

Augustus.

ACC LATIN 3

LAT 370

ACC: St. Louis University 1818

Level: 10, 11, 12

Duration: Two Semesters - 1 Credit

Prerequisite: LAT 230

Description: This course completes the course of Latin grammar. The course shifts more focus to reading Latin. Emphasis is placed on clause structure and syntax. Historical essays present the continued influence of Latin in the post-classical world.

ACC HONORS LATIN 4

LAT 470

ACC: St. Louis University 1818

Level: 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: LAT 330

Description: This course builds on Latin 3 as follows: a) a complete review of Latin grammar, b) practice on reading more complicated passages for content and correctness, c) introduce students to Latin poetry, with special emphasis on the poems of *Catullus*, d) give students a foundation in Latin 5, where they will study the *Gallic Wars* of Caesar and Vergil's *Aeneid*.

AP/ACC LATIN

LAT 570

AP: Advanced Placement College Board
Optional AP Latin Exam is available.

ACC: St. Louis University 1818

Level: 12

Duration: Two Semesters - 1 Credit

Prerequisites: LAT 470; current teacher recommendation and department chairperson approval.

Description: This reading course is designed to prepare students to take the Advanced Placement Exam in Latin, which covers Caesar's *Gallic Wars* and Vergil's *Aeneid*. Students will cover the required lines of Caesar and Vergil works in both English and in Latin. There will be class discussions covering the models of leadership in each work, as well as the historical, cultural, and literary nature of the material. Quizzes and tests will be designed to expose students to the types of questions they will encounter on the AP exam.

SPANISH LANGUAGE & CULTURE PROGRAM

SPANISH 7

SPA 730

Level: 7

Duration: Two Semesters - 1 Credit

Description: This course is designed as an introduction to the grammar structures and basic vocabulary of the Spanish language, while also providing a global overview of Hispanic cultures. This course develops proficiency in the four language skills (listening, speaking, reading and writing) through meaningful, task-based instruction, applying concepts to realistic contexts. Students will take part in research projects and presentations to enhance cultural awareness in the classroom. The *Realidades* textbook series is used in this course.

SPANISH 8

SPA 830

Level: 8

Duration: Two Semesters - 1 Credit

Description: This course continues the development of proficiency and core skills (speaking, listening, reading and writing) in the Spanish language. Students at this level will be expected to engage exclusively in the target language. Speaking and writing skills will be emphasized through research projects, in-class presentations and daily presentations. Cultural awareness is advanced through reading authentic materials and engaging with online/audio resources.

SPANISH 1

SPA 130

Level: 8, 9, 10, 11

Duration: Two Semesters - 1 Credit

Description: This course is designed as an introduction to basic vocabulary and grammar concepts of the Spanish language. It develops proficiency in the four language skills (listening, speaking, reading, and writing) and exposes the student to aspects of the Hispanic cultures. Verbs are used in the present tense with particular emphasis on verbal production of the language. Various projects, such as, research and group projects, may be used to enhance cultural awareness.

SPANISH 2

SPA 230

Level: 9, 10, 11, 12

Duration: Two Semesters - 1 Credit

Description: This course continues to develop proficiency in Spanish giving more depth to the four language skills. It enables the student to further develop his language skills through advancing interaction in the target language. Students learn more about Hispanic cultures with the use of authentic materials. Verbs are used in the present, preterite, imperfect and future tenses. Various projects, such as, research and group projects, may be used to enhance cultural awareness.

HONORS SPANISH 2

SPA 250

Level: 9, 10, 11, 12

Duration: Two semesters - 1 Credit

Prerequisite: Language placement process for new incoming students; current teacher recommendation and department chairperson approval.

Description: This course is designed to further develop speaking, listening, reading, and writing skills in Spanish. Contextual vocabulary and appropriate grammar is taught including verb use in the present, preterite, imperfect and the future tenses. Class participation through practical speaking with pronunciation is emphasized. Cultural topics are explored using authentic materials. Reading, writing, and listening skills are stressed to develop a solid foundation in the Spanish language. All of these skills are designed to prepare students for future study in Spanish.

SPANISH 3

SPA 330

Level: 11, 12

Duration: Two Semesters - 1 Credit

Prerequisite: Placement process

Description: This course is designed to further develop speaking, listening, reading, and writing skills in Spanish. Verbs are used in the present, preterit, imperfect, the future, imperative, and present subjunctive. Students will learn about the culture by use of the Internet for research and for oral presentations. Spanish conversation is incorporated into the class throughout the year.

ACC HONORS SPANISH 3

SPA 370

ACC: Saint Louis University 1818

University of Missouri - St. Louis

Level: 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: Language placement process for new incoming students; current teacher recommendation and department chairperson approval.

Description: This course is designed to further develop speaking, listening, reading, and writing skills in Spanish. Contextual vocabulary and appropriate grammar is taught including verb use in the present tense, present progressive, preterit, pluperfect, future, conditional, imperative, and present subjunctive. A more in-depth study of the culture and history of Spain and Latin America are conducted in various ways, for example, through research projects, preparing PowerPoint presentations, reading newspaper articles and other sources. Class participation through practical speaking with clear pronunciation is emphasized. Reading, extensive writing, and

listening skills are stressed to develop a broader foundation in the Spanish language. All of these skills are designed to prepare students for future study in Spanish.

SPANISH 4

SPA 430

Level: 12

Duration: Two Semesters - 1 Credit

Prerequisite: Language placement process for new incoming students; current teacher recommendation and department chairperson approval.

Description: This course is a continuation of Spanish 3 and is designed for students who wish to continue language study, but are not recommended for, or do not wish to take the Advanced Placement Spanish Language course. Students will be involved in a comprehensive yet detailed review of the principles of the Spanish language as they manifest themselves in the various skills of linguistic practice: listening, speaking, reading, and writing. Included will be vocabulary, grammar (tenses and sentence structure) and phonetics (sound production and recognition). Student should establish and solidify a mature and certain understanding of the complexities of the Spanish language and thereby increase their facility and comfort with same.

AP/ACC SPANISH LANGUAGE & CULTURE

SPA 470

AP: Advanced Placement College Board

Optional AP Spanish Language & Culture Exam is available.

ACC: St. Louis University 1818

University of Missouri - St. Louis

Level: 12

Duration: Two semesters - 1 Credit

Prerequisites: Language placement process for new incoming students; student is required to have a 90% average from ACC Honors Spanish 3; current teacher recommendation and department chairperson approval.

Description: This course prepares students for the optional AP Spanish Language Exam. The class will be conducted completely in the target language. The four language skills are refined. All verb tenses and major grammar structures are studied and/or reviewed. Grammar is used creatively to write compositions, to participate in discussions and to understand fiction and non-fiction works. The ultimate goal of this course is to engender in the student the confidence and desire to utilize the foreign language as a means of oral communication in every day social circumstances. Success in the skills of listening comprehension and speaking will establish the bedrock of the student's enthusiasm for the subject matter.

ENGLISH DEPARTMENT

Mission Statement: The English Department aims to educate students to read and think critically, to write and communicate effectively, to live out the Five Characteristics of Marianist Education, and to achieve their educational goals. Critical thinking can be defined as a mode of thinking in which one skillfully analyzes, assesses, and reconstructs a subject. Students who graduate from Chaminade are capable of critical thinking, which is self-directed, self-disciplined, self-monitored, and self-correcting.

Vision Statement: The English Department prepares students to be lifelong learners and critical thinkers through their exploration of literature, their development of formal and creative writing skills, and their implementation of research skills. A goal of the English Department is for students to appreciate literature in its many diverse forms. The English Department's emphasis on critical thinking teaches students ethical discernment in a morally complex world. Students develop a variety of critical approaches to written and digital texts which further their growth as analytical thinkers. Students leave Chaminade prepared to read and write at the college level.

Department Chairperson: Dr. Daniel Karcher Ext. 1169 Email: dkarcher@chaminade-stl.org

MIDDLE SCHOOL COURSES

Listed below are the **HIGH SCHOOL ENGLISH READINESS CONCEPTS** integrated in the Middle School English courses.

Writing process:

- **Development of topics to ensure purpose and focus**
- **Organize writing to ensure best order for unity and coherence**
- **Best use of word choices for style, tone and clarity in sentence structure**
- **Revise sentence structure to include verb tense and conjunctions**
- **Practice correct usage of grammar and punctuation**

Reading Process:

- **Recognize the main idea and intent of the author**
- **Determine supporting details to understand the author's intended message**
- **Recognize clear cause-effect relationships within a passage**
- **Understand meanings of words in context**
- **Draw generalizations and conclusions about a situation presented in a text**

WORD POWER & LITERATURE

ENG 630

Level: 6

Textbook Level: 7

Duration: Two Semesters - 1 Credit

Description: This course is designed to acquaint students with the literary standards of Chaminade College Preparatory School. The goal of the course is to develop each student's reading, writing, and critical thinking skills so that he may correctly and confidently express himself. To achieve this goal, the course will guide each student through exercises in grammar, mechanics, sentence structure, paragraph and essay writing, and literature evaluation. Lessons and pedagogy will be tailored to the unique learning styles of boys, and the course's readings have been chosen to appeal to boys' interests.

WRITTEN LANGUAGE & LITERATURE

ENG 730

Level: 7

Textbook Level: 8

Duration: Two Semesters - 1 Credit

Description: The first semester of this class focuses primarily on helping students expand their vocabulary and mastering word meanings and usage. Students will also be exposed to a variety of literary genres focusing primarily

on fictional and historical literature. As students read literature they will incorporate the following strategies to analyze the prose. Students will discuss why the characters' act in the prescribed manner, predict outcomes, and make connections between their own experiences and those of the characters. The second and semester focuses on both grammar and writing. Grammar concentrates on parts of speech, phrases, clauses and sentence structure. Students will use these grammatical concepts in the writing process. Initially, students will begin writing power paragraphs. They will then be introduced to the format of the five paragraphs where they will write a character analysis, a poetry explication, and a research paper. Specifics of the writing process include developing the thesis through prewriting, organizing the content by developing detail and supporting commentary, revising and clarifying problems in content or structure, and editing to check for correct grammar, usage and punctuation errors.

LITERATURE & WRITING PROCESS

ENG 830

Level: 8

Textbook Level: 9

Duration: Two Semesters - 1 Credit

Description: This course concentrates on grammar, literature, and writing. Grammar study includes parts of speech, phrases, clauses, and mechanics. Literature includes the study of poetry, drama and the novel. A primary focus of the course is working through the writing process. Writing includes the five paragraph essay, a research paper, and vocabulary.

HIGH SCHOOL COURSES

ACT COLLEGE READINESS CONCEPTS integrated in the High School English courses:

- **Critical Thinking**
- **Reasoning**
- **Problem-Analysis**
- **Writing**

ENGLISH 9: SENTENCE TO NOVEL

ENG 130

Level: 9

Duration: Two Semesters - 1 Credit

Description: This course is designed to teach the Chaminade student the fundamentals of college preparatory writing and to strengthen critical reading skills. The course begins with a thorough study of the sentence analysis system. The composition unit focuses on paragraph writing and the development of several five paragraph essays. The sentence analysis system is then applied as a viable proof-reading tool. The literature unit covers the novel, the short story, the play, and the poem—most notably, the epic poem.

COMPOSITION

COM 230

Level: 10

Duration: One Semester - ½ Credit

Description: This half credit course focuses on the practical application of locating and correcting common sentence errors and developing a more mature writing style. This process is intended to develop the correctness and maturity of the student's writing style, as well as introduce the MLA format. Simultaneously, students produce four academically useful expository essay patterns: explanatory, contrast, research and argumentative. In addition to teaching organizational patterns, the study emphasizes quality of content and convincing, detailed development. Throughout the study, breaks between sections are used to review correct usage and mechanics as used on the ACT and SAT. The Composition course is required of all sophomores.

ESL COMPOSITION

ESC 100

Level: 9, 10, 11

Duration: One Semester - ½ Credit

Prerequisite: A first-year and/or second-year international student.

Description: This half credit course is open to international students and focuses on the practical application of locating and correcting common sentence errors and developing a more mature writing style. This process is intended to develop the correctness and maturity of the student's writing style, as well as introduce the MLA format. Simultaneously, students produce four academically useful expository essay patterns: explanatory, contrast, research and argumentative. In addition to teaching organizational patterns, the study emphasizes quality of content and convincing, detailed development. Throughout the study, breaks between sections are used to review correct usage and mechanics as used on the ACT and SAT. The composition course is required of all international students during their sophomore year or during their junior year if they first enroll as juniors.

AMERICAN LITERATURE

ENG 230

Level: 10

Duration: Two Semesters - 1 Credit

Description: American Literature is a sophomore level course designed to provide students with an understanding of literary selections written by American authors beginning in the sixteenth century and continuing through the twentieth century. The selections covered encompass a variety of literary genres including the novel, short story, poetry, and drama. Students also study vocabulary. In addition, students are required to read novels by contemporary American authors to foster an interest in reading. Summer reading is also a part of this course.

HONORS AMERICAN LITERATURE

ENG 250

Level: 10

Duration: Two Semesters - 1 Credit

Prerequisites: Admission to the Honors class will be determined by grades, class rank, and standardized test scores; current teacher recommendation and department chairperson approval.

Description: Honors American Literature is a sophomore level course for students of superior abilities. The course is designed to provide students with a deep understanding of literary selections written by American authors. This course emphasizes a close reading of the text and looks at the influence of the writer's life on the works produced. Selections vary in length and genre and encompass a variety of reading levels. The Honors course distinguishes itself from the regular ENG 230 course by including the study of several novels and the writing of several critical essays on the literature studied. Students also study vocabulary. In addition, students are required to read novels by contemporary American authors to foster an interest in reading. Summer reading is also a part of this course.

ACC COMPOSITION/LITERATURE

ENG 370

ACC: St. Louis University 1818

Level: 11

Duration: Two Semesters - 1 Credit

Description: The course consists of approaches to composition and literature with additional attention to vocabulary development which is essential to both pursuits. During the junior year, students are expected to refine composition patterns learned in the sophomore year and to develop alternate strategies of writing which are designed to meet the writing tasks given them. Their most demanding writing job is an 8 to 10-page research paper in MLA style. The literature study involves a types approach which teaches various methods of analysis designed to enable students to become independent readers, able to appreciate and interpret literature without someone explaining it to them. The intensive vocabulary work is also a major element in the course. This aspect of the study has two purposes: 1) to increase the students' store of available tools for expression, and 2) to improve student scores on the SAT test.

AP/ACC ENGLISH LANGUAGE AND COMPOSITION

ENG 371

AP: Advanced Placement College Board

AP English Language & Composition Exam is required.

ACC: St. Louis University 1818

Level: 11

Duration: Two Semesters - 1 Credit

Prerequisites: Admission to the AP class will be determined by grades, class rank, teacher recommendations, standardized test scores, and a writing sample. An e-mail will be sent to all sophomores with directions for the writing sample. The student must submit the writing sample by the required date to be considered for the AP course.

Being in the sophomore Honors class is a positive indicator, but it is not a requirement for entrance into the junior AP course; current teacher recommendation and department chairperson approval.

Description: The course, designed for students of superior ability, consists of materials and exercises that develop sensitivity to language and composition technique. This course focuses on the concept of purpose: what the writer wants to say to whom and how he designs his work to accomplish his purpose. Several sessions are devoted to answering essay questions from previous AP English Language and Composition exams. Subsequent discussions focus on strategies for answering such questions. In addition, the student spends a good amount of time on the study of usage, diction, and vocabulary--needed preparation for both the AP exam and the SAT test. Students demonstrate their ability by writing a ten-page research paper using the MLA style. Finally, the course incorporates a study of British and American literature, to discuss, analyze and evaluate in terms of rhetorical devices.

ACC WORLD LITERATURE AND COMPOSITION

ENG 470

ACC: University of Missouri - St. Louis

Level: 12

Duration: Two Semesters - 1 Credit

Description: This course surveys the literature of the world from the Renaissance to the present day. The social, political, philosophical and religious factors that influence literary trends and reactions are emphasized. The course covers both traditionally "classic" authors as well as authors who have not traditionally been studied outside of their original cultures or languages. Students develop a sophisticated vocabulary related to the study of literature and the humanities. Composition activities promote college-preparedness through the development of research skills and the practice at meeting the norms of college-level analytical writing. Students in this course write one 10-12 page research paper and write a number of other literary analysis essays.

AP/ACC ENGLISH LITERATURE AND COMPOSITION

ENG 471

AP: Advanced Placement College Board

AP English Literature & Composition Exam is required.

ACC: St. Louis University 1818

Level: 12

Duration: Two Semesters - 1 Credit

Prerequisites: Admission determined through a screening based on student standing/performance in the following: overall GPA/class rank, critical reading scores on the Pre-version of ACT and PSAT tests; first semester junior English grade; and, current teacher recommendation approval.

Description: This course, for students of superior ability/potential, addresses two primary, though not necessarily parallel, goals: the development of the skills of literary analysis and independent, critical thinking and preparation for credit-earning performance on the AP exam at the end of the year. Close reading and analytical writing, with particular attention to how a writer's techniques shape our understanding of the intended meaning of a work of literature, are the foundation of the course, and this analytical writing is the primary means of evaluation in the course. Literary devices and significant conventions in the genres of poetry, fiction and drama receive particular attention in preparation for the AP exam at the end of the year. Students also write an extensive research paper on a literary topic.

CREATIVE WRITING

WRI 430

Level: 11, 12

Duration: One Semester - ½ Credit

Description: This course provides an opportunity for students to refine their creative writing skills beyond those developed in the required English courses. Students will explore different ways of conveying meaning through writing to see how methods and styles vary within cultures and time periods. Writing activities and the study of literature are organized by genre, including poetry, short stories, plays, nonfiction (feature articles, etc.) and a multimedia production. Activities include reading and discussion of models, journaling, free writing, peer conferencing with emphasis placed on revision, and teacher-student conferencing. A portfolio will serve as the final assessment.

INTRODUCTION TO JOURNALISM

JRN 430

Level: 11, 12

Duration: One Semester - ½ Credit

Description: Introduction to Journalism is a course designed to teach Chaminade students the basics of non-fiction writing, especially as it is used to explain events, interpret issues, or articulate positions on issues of interest or importance. Students will learn techniques for writing news articles, features, reviews, and opinion editorials; students will also be taught the basic of journalistic responsibility and the importance of a fair, impartial, and meticulous press. While Introduction to Journalism is not a course designed to replace Chaminade's school newspaper, *The Cardinal and White*, nor is enrollment in the class a requirement for extra-curricular participation, the course will enhance the skills of student writers, foster opportunities for authentic writing and publication, and encourage engagement with and reflection on current issues and events. Students will evaluate models in terms of both form and content, and will be asked to consider the role of the world-wide-web and other media in constructing news. Introduction to Journalism will provide a collaborative learning environment, one where students introduce article ideas, express opinions, and become more skilled writers.

ACC INTRODUCTION TO FILM

FLM 470

ACC: St. Louis University 1818

Level: 11, 12

Duration: One Semester - ½ Credit

Description: This course chronologically explores American wars of the 20th century, including WW I, WW II and Vietnam. Over the course of the semester, we will closely examine films and literature that examine the experience of modern war. Focusing primarily on cinematography and the concept of "mise en scene," imperfectly rendered into English as "setting" or "staging," we will observe how framing, lighting, décor, performance style, and camera movement create style, as well as persuade. Particular attention will be paid to WW II and the Holocaust, with a focus on testimony, historical contextualization, collaboration and complicity—all objectives championed by The Anti-Defamation League and others. Our final objective is an overview of the visual and verbal resources available to the filmmaker.

ACC THEMES IN CONTEMPORARY FICTION

FIC 470

ACC: University of St. Louis-Missouri

Level: 11, 12

Duration: One Semester - ½ Credit

Description: This course provides students the opportunity to read, talk and write about recently published fiction. The semester is organized around a series of themes, typically one per grading period, that change with some regularity from semester to semester. This course enables students who are interested in broadening their experience with literature to read the kinds of novels and short stories they are unlikely to be assigned in their year-long English courses. Some readings will be assigned and required, but there will also be room for students to read works of their own choosing. Potential themes include: coming of age, dystopian anxiety, heroism and violence, existentialism, moral action and relativism, gender and identity and consciousness, alienation, family, pessimism vs. optimism, etc. Students will keep reading journals and write reflections on what they read throughout the course. These journal entries and reflections will be structured so that students leave the course after a semester having thought frequently about what they like to read, what they don't like to read and why. Students will write two essays during the semester. Additionally, students will read about and conduct research regarding the act of reading and its benefits – cognitive, cultural, personal – throughout the semester, and they will present their findings at the end of the term.

FINE ARTS DEPARTMENT

Mission Statement: The mission of the Fine Arts Department, implementing all Five of the Characteristics of Marianist Education, is to cultivate a life-long appreciation and understanding of the arts and the value of aesthetics in everyday life through participation in the three disciplines of Music, Theatre, and Visual Arts. The Department actively seeks to find and nurture the God-given gifts present in all students.

Vision Statement: The vision of the Fine Arts Department is to make itself a commanding presence within and beyond the Chaminade community. Through study and participation in the arts, Chaminade students will realize the intrinsic value of the arts in everyday life and will be able to express their spirituality through the arts. Utilizing the Skip Viragh Center for the Arts, the Fine Arts Department will continue to develop courses and opportunities for our students to connect with the local, regional, and national community.

Department Chairperson: Mr. Robert Grumich Ext. 1215 E-mail: rgrumich@chaminade-stl.org

MIDDLE SCHOOL VISUAL ARTS COURSES

STUDIO ART 6: EXPLORE

ART 630

Level: 6

Duration: One Semester - ½ Credit

Description: Students will explore art and art styles by creating work based on observation, personal experience, imagination, and cultural studies. Students will explore the visual world of ancient civilizations and make connections to the visual world of today. Students will create two and three dimensional projects using a variety of drawing, painting, and sculpture techniques. Students will learn how to talk about their work using art vocabulary.

STUDIO ART 7: DISCOVER

ART 730

Level: 7

Duration: One Semester - ½ Credit

Description: Students will discover many styles of art as forms of communication, ranging from realism to abstraction. Students will create projects using a variety of media based on observation, imagination, personal experiences, cultural, and art historical studies. Students will discover similarities and differences in works they create to works of artists and cultures. Students will be expected to verbalize these comparisons using the vocabulary of art.

STUDIO ART 8: FOCUS

ART 830

Level: 8

Duration: One Semester - ½ Credit

Description: Students will focus on learning the elements and principles of art. These formal elements will be stressed in each project the students create. A variety of media will be used in the creation of projects to help sharpen the students' focus on the elements and principles. The students will also connect visual art to written forms of communication. Students will learn the vocabulary necessary to confidently speak the language of visual art.

HIGH SCHOOL VISUAL ARTS COURSES

ART I

ART 130

Level: 9

Duration: One Semester - ½ Credit

Description: Students will develop their problem solving skills by creating art using a variety of materials, techniques, and understanding of the art concepts. The elements and principles of art will be stressed while working with two-dimensional and three-dimensional media. Artists' works will be shown to demonstrate various ways

visual “problems” have been solved. Students will be expected to verbalize constructive criticisms and suggestions about their work throughout the semester.

ACC DRAWING 1

ART 270

ACC: University of Missouri - St. Louis

Level: 10, 11, 12

Duration: One Semester - ½ Credit

Description: Using a variety of drawing media, students will draw from still life, landscape, portraiture, and reference materials. Technical as well as expressive drawing qualities will be addressed. Students are required to keep a portfolio of their work. Students will be expected to verbalize constructive criticisms and suggestions about their work throughout the semester.

ACC DIGITAL IMAGING I

ART 372

ACC: University of Missouri - St. Louis

Level: 10, 11, 12

Duration: One Semester - ½ Credit

Description: Students will be introduced to the basic concepts of digital image making through the use of traditional and contemporary photographic processes. Students will learn how to effectively use digital and film cameras, the scanner, the darkroom and photo shop. Students will be expected to verbalize constructive criticism and suggestions about their work throughout the semester.

ACC DIGITAL IMAGING II

ART 472

ACC: University of St. Louis - Missouri

Level: 11, 12

Duration: One Semester - ½ Credit

Prerequisite: ART 372; current teacher recommendation and department chairperson approval.

Description: Students will further develop their understanding of digital image making through the use of traditional and contemporary photographic processes. This course is designed to give the student more of an opportunity for self-direction in digital imaging. Students will be introduced to the work of contemporary artists and photographers as a way of understanding their own work. Students will be expected to verbalize constructive criticism and suggestions about their work.

ACC ADVANCED DRAWING II AND PRINTMAKING

ART 370

ACC: University of Missouri - St. Louis

Level: 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: ART 270; current teacher recommendation and department chairperson approval.

Description: Using various drawing media, students will draw from still life, landscape, and portraiture. A variety of traditional and contemporary artists will be introduced to students as a means of understanding their own work. The students will be introduced to the methods and materials of relief printing, etching, and screen printing. Students will be required to keep a sketchbook and portfolio of their work.

ACC PAINTING I

ART 371

ACC: University of Missouri - St. Louis

Level: 10, 11, 12

Duration: One Semester - ½ Credit

Description: Using oil sticks, acrylic and watercolor paint, students will paint from still life, landscape, portraiture, and reference materials. Technical as well as expressive painting qualities will be addressed. Artists’ works will be shown to demonstrate various ways painting “problems” have been solved. Students will be expected to verbalize constructive criticisms and suggestions about their work throughout the semester.

ACC PAINTING II

ART 471

ACC: University of Missouri - St. Louis

Level: 11, 12

Duration: One Semester - ½ Credit

Prerequisites: ART 371; current teacher recommendation and department chairperson approval.

Description: Students will further their skills learned in Painting I. This course is designed to give students more of an opportunity for self-expression in their paintings. Students will be expected to verbalize constructive criticisms and suggestions about their work throughout the semester.

ACC CERAMICS I

CER 470

ACC: University of Missouri - St. Louis

Level: 10, 11, 12

Duration: One Semester - ½ Credit

Prerequisites: ART 130

Description: Students will learn various techniques of creating pottery through hand building and throwing. Students will also learn a variety of surface decorations for the clay, as well as a variety of firing methods. Students will be introduced to a variety of ceramic forms and styles. Students will be required to keep a portfolio and sketchbook of their work.

ACC CERAMICS II

CER 475

ACC: University of Missouri - St. Louis

Level: 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: CER 470; current teacher recommendation and department chairperson approval.

Description: Students will further their skills learned in Ceramics I. Acceptance into Ceramics II is not determined by Ceramics I grade alone. Incoming students must have demonstrated a consistent willingness to take initiative, be self-directed, demonstrate planning, preparation, creative problem solving, risk-taking and properly managing class time. Prior to signing-up for the course, the student must demonstrate a high level of interest and willingness to learn wheel throwing. The student must contact the instructor prior to signing-up to determine acceptance into Ceramics II. Greater emphasis will be placed on design, form, and surface decoration. Students will become proficient enough to load and fire bisque and glaze firings. Students will be required to keep a portfolio and sketchbook of their work.

CERAMICS III

CER 480

Level: 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: CER 475; current teacher recommendation and department chairperson approval.

Description: Students will further their skills learned in Ceramics II. Emphasis will be placed on design, form, and surface decoration. Students will continue to load and fire bisque and glaze firings. Students will be required to keep a portfolio and sketchbook of their work. Students will further explore their personal voice through the medium of clay. They will be expected to design and create work that is more technically challenging and sophisticated than in Ceramics II.

AP STUDIO ART

ART 470

AP: Advanced Placement College Board

AP Studio Art Exam is required.

Level: 12

Duration: Two Semesters - 1 Credit

Prerequisites: ART 230; current teacher recommendation and department chairperson approval.

Description: The goal of this class is the completion of the AP Portfolio. This class is reserved for the students who take their art seriously. Students will explore areas of their own choice. Students must be self-motivated enough to put forth much time outside of class in order to attain this goal. Students are required to keep a sketchbook and a portfolio.

MIDDLE SCHOOL MUSIC COURSES

BEGINNING BAND - Middle School

BBD 730

LEVEL: 6, 7, 8

Duration: Two Semesters - 1 Credit

Description: This course is designed for the student who wishes to learn to play a band instrument and to become a part of the award-winning Chaminade Band Program. Instruction in Flute, Clarinet, Saxophone, Trumpet, French Horn, Trombone, Euphonium, Tuba, String Bass, and Percussion (Drums and Mallets) is offered. Students will learn techniques of playing their chosen instrument, enabling them to advance to Intermediate Band, Wind Ensemble, and Jazz Ensembles. A reasonable amount of practice is required of all students.

Please Note: 7th Grade Students would move to M.S. Intermediate Band after 7th Grade Beginning band. 8th Grade Beginners would move to the high school Wind Ensemble or Jazz Ensemble.

INTERMEDIATE BAND

IBD 830

Level: 6, 7, 8

Prerequisites: BBD 730 or successful band experience prior to attending Chaminade (Contact Band Director for approval)

Description: In this course continued instruction is offered in the basics of playing the chosen band instrument started in BD 730 or grade school band, with added emphasis on developing musicianship and band performance skills through study and performance of a variety of appropriate band literature. 8th grade students are normally placed in Wind Ensemble and Jazz Ensemble the following year. A reasonable amount of practice time is required.

HIGH SCHOOL MUSIC COURSES

BEGINNING BAND - High School

BBD 130

Level: 9, 10, 11

Duration: Two semesters - 1 Credit

Description: This course is designed for the student who wishes to learn to play a band instrument and to become a part of the award-winning Chaminade Band Program. Instruction in Flute, Clarinet, Saxophone, Trumpet, French Horn, Trombone, Euphonium, Tuba, String Bass, and Percussion (Drums and Mallets) is offered. Students will learn the basic techniques of playing their chosen instrument, enabling them to advance to Wind Ensemble or Jazz Ensemble. A reasonable amount of practice time is required of all students.

ACC WIND ENSEMBLE

WDE 470

ACC: University of Missouri - St. Louis

Level: 9, 10, 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: IBD 830, BBD 130, or Band Director Approval.

Description: The Wind Ensemble is the premier performing ensemble in Chaminade's award-winning Band Program. A variety of band literature is rehearsed and performed throughout the school year. Since Wind Ensembles is a performing organization, a great deal of note learning is accomplished through individual practice, while class rehearsal time is used to develop group technique, accuracy, and musical expression. Opportunities exist for solo and small ensemble participation, as well as honor band experiences by audition. (Many Wind Ensemble members choose to study and/or play music in college and take advantage of available scholarship funds.)

ACC JAZZ ENSEMBLE

JZE 430

ACC: St. Louis University 1818

Level: 9, 10, 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: IBD 830, BBD 130, or Band Director Approval.

Description: The Jazz Ensemble is the premier Jazz group in Chaminade's Band Program. In this course students play Jazz in a Big Band setting, with emphasis placed on the development of ensemble skills, improvisation,

articulation, and phrasing. An appreciation of Jazz history and specific Jazz artists is developed through listening to Jazz recordings and live performances. Swing, Latin, Blues, and contemporary styles are studied and performed.

MUSIC ENSEMBLES

MSC 270

Level: 9, 10, 11, 12

Duration: Two Semesters - 1 Credit

Prerequisite: Band Director Approval.

Description: Chaminade offers music students the opportunity to rehearse and perform with a variety of small ensembles which meet before and after school. Combo I focuses on pieces by great Jazz composers and is designed for students with advanced improvisation skills. Contemporary Music Group performs Rock, Funk and other contemporary music styles. Jazz Lab is designed for students who have little or no prior experience playing Jazz. Men's Chorus sings a wide range of literature from classical to modern. Students enrolled in 2 or more of these ensembles may earn ¼ credit per semester.

MUSIC WORKSHOP

MUS 430

Level: 10, 11, 12

Duration: One Semester - ½ Credit

Prerequisites: Previous musical study (school band, private piano or guitar), or Band Director approval.

Description: In this course students will be introduced to the basic elements of music including: Notation, Rhythm, major and minor Key Signatures, Time Signatures, musical form, and basic Solfege. Students will be required to demonstrate their mastery in a culminating final project. Students completing this course may advance to AP/ACC Music Theory for advanced college credit.

AP/ACC MUSIC THEORY

MUS 470

AP: Advanced Placement College Board

Optional AP Music Theory Exam is available.

ACC: University of Missouri - St. Louis

Level: 11, 12

Duration: One Semester - ½ Credit

Prerequisites: MUS 430; current teacher recommendation and department chairperson approval.

Description: In this music theory course, students will study the harmonic materials of the common practice period (1650-1900) focusing on the compositional and harmonic techniques used by Bach, Mozart, and composers of the Romantic Period. Emphasis is placed on analysis of four-part harmony, the composition of four-part pieces, and aural skills. Combined with the prerequisite Music Workshop course, this course is approved for UMSL advanced college credit and prepares students for the AP Music Theory Exam and advanced college music theory courses.

ACC WORLD MUSIC

MUS 471

ACC: St. Louis University 1818

Level: 11, 12

Duration: One Semester - ½ Credit

Description: This is designed for non-musicians who wish to understand the universal language of music across cultures. Students will study the basic elements of music and the major musical traditions of world cultures. The course is designed to help students be wise consumers of music and to understand the universality of music across cultures and time. There will be a focus on listening to music and written analysis.

MIDDLE SCHOOL PERFORMING ARTS THEATRE COURSES

THEATRE ARTS 6: EXPLORE

DRA 630

Level: 6

Duration: One Semester - ½ Credit

Description: Students will explore: 1) performance art through expanded stories using themes taught across the curriculum and stock characters; 2) how to concentrate through warm-ups and pantomiming; 3) how design

elements communicate time, place, and mood; 4) appropriate audience behavior and how to receive constructive criticism; 5) historical and cultural dramatic events and investigate artists and their contributions; and 6) different ways they can participate in theatre as an extra-curricular activity.

THEATRE ARTS 7: DISCOVER

DRA 730

Level: 7

Duration: One Semester - ½ Credit

Description: Students will discover: 1) their dramatic voice by writing scenes from personal experience using a protagonist, antagonist, and conflict; 2) how to speak, move, and generate ideas spontaneously through improvisation; 3) ways to communicate time, place, and mood through theatrical and technical elements; 4) appropriate audience behavior and how to verbalize their reactions to performances and constructive criticism; 5) theatre across curricular disciplines through project based performances; 6) theatre’s rich history through project based performances; and 7) occupations within theatre.

THEATRE ARTS 8: FOCUS

DRA 830

Level: 8

Duration: One Semester - ½ Credit

Description: Students will focus on: 1) communicating their skills and ideas by creating fully developed individual and ensemble performances applying genre, structure, character choices, and group dynamics; 2) selecting and applying theatrical and technical elements to establish time, place, and mood; 3) modeling and verbalizing appropriate audience behavior and developing their critical voice; 4) making connections between theatre and non-arts disciplines through project based performances; 5) the role of culture and its diverse heritage in theatre and be able to communicate how it reflects life and acts as a catalyst for change; and 6) avocations within theater.

HIGH SCHOOL PERFORMING ARTS THEATRE COURSES

THEATRE ARTS I

DRA 130

Level: 9

Duration: One Semester - ½ Credit

Description: This course offers students’ knowledge of theatre terminology and introduces and expands student knowledge of many facets of the theatre arts, including the areas of acting, improvisation, and design. Students will have the ability to learn through small group and solo performances, self-created work, discussions, activities, written work and reflection.

THEATRE ARTS II

DRA 230

Level: 10

Duration: One Semester - ½ Credit

Description: This course continues building student knowledge of theatrical concepts, including a more detailed focus on various acting approaches, hands on practice with theatrical design, as well experience with performance styles as the class explores an overview of theatre history from the Ancient Greeks to Shakespeare. Students will have the ability to learn through small group and solo performances, self-created work, discussions, activities, written work, and reflection.

ADVANCED DRAMA I

DRA 330

Level: 11, 12

Duration: One Semester - ½ Credit

Description: Advanced Drama I is a semester course designed to allow the serious theatre student further exploration of the craft of acting and production, as well as the ability to build on their own talents and skills. Students will be active participants in the classroom as well as outside of class in the school’s productions. Students will design their own accumulative project that showcases their talents and acquired knowledge. Students are REQUIRED to attend all shows being presented at CCP the semester they are in this course.

ACC ADVANCED DRAMA II

DRA 470

ACC: St. Louis University 1818

University of Missouri - St. Louis

Level: 12

Duration: One Semester - ½ Credit

Prerequisites: DRA 330

Description: Advanced Drama II is a continuation of Advanced Drama I. Students will continue to build on their knowledge and talent by further exploring the craft of acting and production. Students will be active participants in the classroom as well as outside of class in the school's productions. Students will design their own accumulative project that showcases their talents and acquired knowledge. Students are **REQUIRED** to attend all shows being presented at CCP the semester they are in the class.

ACC PUBLIC SPEAKING

PSP 470

ACC: University of Missouri - St. Louis

Level: 11, 12

Duration: One semester - ½ Credit

Description: This is a fast-paced, collegiate-oriented course focusing on the many aspects of public oral presentations. Students will be engaging in authentic learning and assessment through discussions, presentations and evaluations.

MATHEMATICS DEPARTMENT

Mission Statement: In the spirit of the Five Characteristics of Marianist Education, the Mathematics Department is committed to developing the analytical mind of each student as an integral part of educating the whole person. This is accomplished by teaching the theory of Mathematics and its applications with an appropriate use of technology.

Vision Statement: The Mathematics Department envisions providing students with a conceptual foundation in Mathematics that will assure competency in any university level course requiring knowledge of the subject. The Department strives to provide quality instruction in order to help students develop their mathematical ability and attain maximum proficiency in secondary Mathematics.

Department Chairperson: Bro. James W. Eppy, SM Ext. 1209 Email: jeppy@chaminade-stl.org

MIDDLE SCHOOL COURSES

Listed below are the **HIGH SCHOOL MATHEMATICS READINESS CONCEPTS** integrated in the Middle School Mathematics courses:

- Solve routine multistep arithmetic problems that involves rates, proportions, and percents and understand basic operations and applications
- Interpret data and calculate probability and statistics in problem solving
- Apply concepts and properties of numbers- factoring, patterns, sequences
- Evaluate algebraic expressions and solve multistep equations
- Understand graphic representations
- Describe angles and triangles using math terminology and applying properties
- Compute measurement- perimeter, area of rectangles, and polygons

MATH 6

MAT 630

Level: 6

Textbook Level: 6

Duration: Two Semesters - 1 Credit

Prerequisite: Proficiency in the basic arithmetic operations of addition, subtraction, multiplication, and division of whole numbers.

Description: This course is designed to develop an understanding of many fundamental concepts of mathematics. Students will master operations of whole numbers, decimals and fractions, comparing and ordering whole numbers, decimals, and fractions, rounding whole numbers and decimals. Topics to be studied are operations of fractions and decimals, least common multiple, greatest common factor, prime factorization, order of operation, percents, ratios, proportions, organizing data, ordering integers, variables and expressions, solving one-step equations, and perimeter and area of triangles and quadrilaterals. Students will be introduced to powers and exponents, metric system, properties of mental math, the coordinate plane, the distributive property, and operations with integers.

ACCELERATED MATH 6

MAT 650

Level: 6

Textbook Level: 7

Duration: Two Semesters - 1 Credit

Prerequisite: Current teacher recommendation and department chairperson approval.

Description: This course is designed for students that are already proficient in the four basic operations for whole numbers and decimals and have an excellent number sense. The students will master operations with decimals and fractions, order and comparing decimals and fractions, metric units, GCF and LCM, perimeter and area for triangles, quadrilaterals and circles, and ordering and comparing integers. Topics to be studied are proportions, ratios and percent equivalency, organizing and analyzing data, operations of integers, the distributive property, variables and

expressions, equations and mental math, and powers and exponents. Students will be introduced to solving one-step and two-step equations and inequalities, the coordinate plane, graphing inequalities, rate of change and slope, percent equations, and probability.

PRE-ALGEBRA

MAT 730

Level: 7

Textbook Level: 7

Duration: Two Semesters - 1 Credit

Description: This course reviews elementary mathematics while introducing students to some algebraic concepts. Topics to be revisited are order of operations, powers, mean, basic operations of fractions, percent equivalents, and proportions. Topics for continued study are integers, variable expressions, one-step equations, distribution, coordinate plane, solving and graphing inequalities, signed fractions, and percent questions. Students will be introduced to solving two-step equations and inequalities, solving equations using distribution, adding like terms, and variables on both sides.

INTRODUCTION TO ALGEBRA

MAT 750

Level: 7

Textbook Level: 8

Duration: Two Semesters - 1 Credit

Prerequisite: Current teacher recommendation and department chairperson approval.

Description: This course is designed to prepare students for a full year of high school level Algebra. In addition to the topics listed in the Pre-Algebra course, students will study solving two-step equations and inequalities, solving equations using distribution, adding like terms, and variables on both sides, negative and zero exponents, and fractions with variables. Students will be introduced to linear equations and their graphs, slope-intercept form, and solving systems of linear equations by graphing.

ALGEBRA TOPICS

MAT 830

Level: 8

Textbook Level: 9

Duration: Two Semesters - 1 Credit

Description: This course introduces students to selected topics in Algebra 1. Topics studied include integers, rational numbers, irrational numbers, equations, inequalities, linear equations, and graphing. A slower pace affords students greater opportunity to develop and practice a repertoire of problem-solving skills. Students successfully completing this course should be well prepared for a complete Algebra 1 course in high school.

ALGEBRA 1

ALG 850

Level: 8

Textbook Level: 9

Duration: Two Semesters - 1 Credit

Prerequisites: Criteria used are: 1. Performance in Pre-Algebra and Math 6 (if applicable); 2. Standardized Test Scores; 3. Proficiency Test Score, and, current teacher recommendation and department chairperson approval.

Description: This course provides a thorough presentation of Algebra 1 for students with superior ability in mathematics. Concepts covered include combining algebraic terms, solving linear equations, combining polynomials, graphing in the coordinate plane, solving inequalities, and analyzing simple functions. This is a rigorous course with respect to degree of difficulty and instructional pace of the class. Only students maintaining a class average equal or higher than 93% will be considered for advancement to GEO 250 Honors Geometry.

HIGH SCHOOL COURSES

ACT COLLEGE READINESS CONCEPTS integrated in the High School Mathematics courses:

- **Critical Thinking**
- **Reasoning**
- **Problem-Analysis**
- **Writing**

ALGEBRA 1

ALG 130

Level: 9

Duration: Two Semesters - 1 Credit

Description: This course is designed to present algebra topics necessary for future studies in geometry and Algebra 2. Some of the basic concepts covered include solving linear equations, polynomials, factoring, and coordinate plane. More advanced topics include systems of equations, quadratic equations, functions, variation, and radicals.

GEOMETRY

GEO 210

Level: 10

Duration: Two Semesters - 1 Credit

Prerequisites: ALG 130; current teacher recommendation and department chairperson approval

Description: Geometry is the study of visual patterns in two and three dimensions. This course takes into consideration the needs of some students for extensive drill work and for extra time spent on basic concepts. Ordinarily students in this class will take ALG 310 the following year.

GEOMETRY

GEO 230

Level: 9, 10

Duration: Two Semesters - 1 Credit

Prerequisites: ALG850 or ALG130; current teacher recommendation and department chairperson approval.

Description: Geometry is the study of visual patterns in two and three dimensions. Traditionally, this course emphasized the development of logic and deductive reasoning skills. While the present course continues to use this approach, it also extends the analysis of spatial relationships to include intuitive and inductive processes.

HONORS GEOMETRY

GEO 250

Level: 9, 10

Duration: Two Semesters - 1 Credit

Prerequisites: A grade of 90% or better in both semesters of ALG850; current teacher recommendation and department chairperson approval.

Description: Geometry is the study of visual patterns in two and three dimensions. Traditionally, this course emphasized the development of logic and deductive reasoning skills. While the present course continues to use the classical approach, it also extends the analysis of spatial relationships to include intuitive and investigative inductive processes. The Honors class (GEO 250) covers most topics in greater depth than (GEO 230) and considers related areas from other sources and disciplines.

ALGEBRA 2

ALG 310

Level: 11

Duration: Two Semesters - 1 Credit

Prerequisites: GEO 210 or GEO 230; current teacher recommendation and department chairperson approval.

Description: This course is designed to revisit and reinforce the first year algebra topics of factoring, solving equations/inequalities, linear equations and functions, linear systems, and polynomials, as well as to introduce rational exponents, radical functions, exponential and logarithmic functions, rational functions, quadratic relations, and conic sections. The intent is to prepare students for a College Algebra course and college entrance exams, while taking into consideration the needs of some students for extension drill work and extra time. Typically, students in this class will take ALG 470 the following year.

ALGEBRA 2

ALG 330

Level: 10, 11,

Duration: Two Semesters - 1 Credit

Prerequisites: GEO 230 or GEO 250; current teacher recommendation and department chairperson approval.

Description: This course is designed to reinforce and advance the algebra topics taught in Algebra 1: factoring, solving equations/inequalities, linear equations and functions, linear systems, and polynomials. New topics include rational exponents, radical functions, exponential and logarithmic functions, rational functions, quadratic relations, and conic sections. The intent is to prepare students for college entrance exams and for Pre-Calculus the following year. Typically, students in this course will take CAL 430 Pre-Calculus/Trigonometry in their senior year.

HONORS ALGEBRA 2

ALG 350

Level: 10, 11

Duration: Two Semesters - 1 Credit

Prerequisites: GEO 230 or GEO 250; current teacher recommendation and department chairperson approval.

Description: This is a rigorous course which reinforces and advances the topics of Algebra 1: inequalities, linear equations and functions, linear systems, and polynomials. New topics include rational exponents, radical functions, exponential and logarithmic functions, rational functions, quadratic relations, and conic sections. Topics from statistics and probability will be integrated throughout the course. The intent is to prepare students for college entrance exams, and Pre-Calculus the following year. The statistics topics prepare students for work in AP Chemistry and AP Biology. Typically, students in this class will take CAL 350 Honors Pre-Calculus/Trigonometry or CAL430 Pre-Calculus/Trigonometry the following year.

ACC PRE-CALCULUS/TRIGONOMETRY

CAL 470

ACC: University of Missouri - St. Louis

Level: 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: ALG 330 or ALG 350

Description: In this course, students prepare for calculus by studying in depth the following topics: functions and their graphs including polynomial functions, rational functions, and transcendental functions; trigonometry, vectors, sequences and summation formulas. In this course, the students reintroduced to the use of graphing calculators and are expected to learn how the technology enhances the understanding of theory.

ACC HONORS PRE-CALCULUS/ TRIGONOMETRY

CAL 370

ACC: University of Missouri - St. Louis

Level: 11

Duration: Two Semesters - 1 Credit

Prerequisites: ALG 330 or ALG 350; current teacher recommendation and department chairperson approval.

Description: In this course, students prepare for calculus by studying in depth the following topics: trigonometry, elementary polynomial and rational functions, transcendental functions, vectors, matrices systems of equations, sequences, summation formulas, polar coordinates, conic sections and limits. In this course, students are introduced to the use of modern technology in mathematics and are expected to learn how the technology enhances understanding of theory.

DIFFERENTIAL CALCULUS AND STATISTICS

MAT 430

Level: 12

Duration: Two Semesters - 1 Credit

Prerequisites: A grade of 75% or better in CAL 430 or CAL 350; current teacher recommendation and department chairperson approval.

Description: This course will survey topics from statistics and the first semester of college calculus. The topics covered in calculus will include limits, techniques of differentiation, applications of the derivative, and, if time permits, the beginnings of integration. The statistics semester will include the following topics: displaying

distributions of data, normal distributions, probability, random variables, binomial and geometric distributions, sampling distributions, inference for distributions, and inference for proportions.

ACC COLLEGE ALGEBRA/TRIGONOMETRY

ALG 470

ACC: University of Missouri - St. Louis

Level: 12

Duration: Two Semesters - 1 Credit

Prerequisites: ALG 310 or ALG 330; current teacher recommendation and department chairperson approval.

Description: This course intends to provide students with a knowledge trigonometric ratios, functions, graphs, and equations, and the topics of college algebra. These topics include the study of equations and inequalities, functions and graphs, polynomials and rational functions, exponential and logarithmic functions, systems of equations and matrices, and sequence and series. If the student meets the requirements to participate in the ACC dual enrollment, they will receive credit from both Chaminade and the University of Missouri – St. Louis.

AP/ACC STATISTICS

STA 470

AP: Advanced Placement College Board

AP Statistics Exam is required.

ACC: University of Missouri - St. Louis

Level: 12

Duration: Two Semesters - 1 Credit

Prerequisites: Successful completion of CAL470 or CAL350, or 90% or better in CAL430 or (with concurrent enrollment in CAL350 or CAL430) 93% or better in ALG350; current teacher recommendation and department chairperson approval.

Description: This course covers the topics in elementary statistics including: frequency distributions and graphs, data description, probability, normal distribution, confidence intervals, hypothesis testing, and correlation/regressions. Students will learn how to perform z-distributions, t-distributions, and chi-square distributions with the use of calculator and computer technology. The AP Exam is a requirement in this course, while ACC credit from the University of Missouri – St. Louis is optional.

AP/ACC CALCULUS AB

CAL 471

AP/ACC CALCULUS BC

CAL 472

AP: Advanced Placement College Board

AP Calculus AB Exam and AP Calculus BC Exam are required.

ACC: University of Missouri - St. Louis

Level: 12

Duration: Two Semesters - 1 Credit

Prerequisites: 90% or better in both semesters of CAL 350; current teacher recommendation and department chairperson approval.

Description: The Calculus of elementary functions follows in detail the College Entrance Examination Board's advanced placement course description. Both the AB and BC courses treat topics with the rigor required of math and engineering majors at a university, the AB syllabus covering one and one-half semesters of calculus and the BC syllabus covering two complete semesters. The availability of the BC section is determined on a yearly basis. Both courses are intended for students with superior ability in mathematics. All students take the AP exam at the conclusion of the course.

PHYSICAL EDUCATION DEPARTMENT

Mission Statement: “A sound mind in a sound body, is a short full description of a happy state in this world: he that has these two, has a little more to wish for; and he that want either of them, will be little the better for anything else,” said the philosopher John Locke in *Some Thought Concerning Education* (1693). The Physical Education Department aims to be an integral part of the education process by contributing to the well- being of the individual student through the art and science of human movement. The ultimate responsibility of the Physical Education Department is to provide each individual with the skills that continue to develop and maintain physical fitness, motor skills, creativity, social efficiency, intellectual competency, and development of a physical active lifestyle.

Vision Statement: The Physical Education Department has made a commitment to a diverse Physical Education program, capable of forming a well-rounded student.

Department Chairperson: Mr. Antoine Torrey Ext. 1116 Email: atorrey@chaminade-stl.org

MIDDLE SCHOOL PROGRAM

Middle School physical education courses are designed to provide each individual student with the opportunity to develop health related fitness, motor skill and movement forms, personal and social responsibility/character development and preparation for sport participation. Students will engage in a number of physical activities; including individual and team sports and games of low organization. Students will be evaluated on the American Alliance of Health, Physical Education, Recreation and Dance (AAHPERD) K-12 Physical Education Standards.

BASICS OF FITNESS AND TEAM SPORTS

PED 630

Level: 6

Duration: Two Semesters - 1 Credit

Description: This course is designed to provide each individual the opportunity to develop and maintain physical fitness, motor skills, creativity, social interaction and intellectual competency. Another purpose of the course is to reduce the level of physical stress which a student builds up during the school day. Students will participate in a number of team and individual sports; along with games of low organization. Instruction on rules and techniques of multiple team and individual sports will be provided to students. Technology is an integral part of the entire course. This would include the use of heart rate monitors, DVDs, and computers. Testing of all students will be done based upon the SHAPE/Presidential Fitness Test. A unit of health and nutrition will be included each semester.

FITNESS AND TEAM SPORTS

PED 730

Level: 7

Duration: Two Semesters - 1 Credit

Description: This course is a continuation of the Level 6 course. The course is designed to provide each individual the opportunity to develop and maintain fitness skills, motor skills, creativity, social interaction and intellectual competency. Students will participate in a number of team and individual sports; along with games of low organization. Instruction in technique and rules of the sport will be done on a more advanced level than those skills provided in the Level 6 course. Technology is an integral part of the course. This would include the use of heart rate monitors, DVDs, and computer. Testing of all students will be done based upon the SHAPE/Presidential Fitness test. This course and the seventh grade science course interrelates both a health and nutrition unit.

ADVANCED FITNESS AND TEAM SPORTS

PED 830

Level: 8

Duration: Two Semesters - 1 Credit

Description: This course is designed to provide each individual the opportunity to develop and maintain physical fitness, motor skills, creativity, social interaction and intellectual competency. This course concentrates on specific individual and team sports. Advanced instruction on technique and knowledge is provided to the students. Testing and evaluation of each student during each activity is provided along with feedback to help with individual improvement. Technology is an integral part of this course. This would include heart rate monitors, DVDs, and

computers. Testing of all students will be done based upon SHAPE/Presidential Fitness test. A unit of health and nutrition will be provided each semester.

HIGH SCHOOL PROGRAM

High school students will be required to complete the AAHPERD Fitness Gram/Activity Gram. Students will be made aware of the components of health-related fitness and how to evaluate their personal levels of fitness through their own self-measurement. The main goal of the Fitness Gram is to make students and parents aware of the students' fitness levels as compared to national standards.

BEGINNING WEIGHT TRAINING

PED 130

Level: 9

Duration: One Semester - ½ Credit

Description: This course is designed to provide each individual student with the opportunity to develop health-related fitness, motor skill and movement forms, personal and social responsibility, character development and preparation for sport participation. Students will engage in weight training. Students will be evaluated on the *American Alliance of Health, Physical Education, Recreation and Dance (AAHPERD) K-12 Physical Education Standards:*

1. **FITNESS:** Students will be required to complete (AAHPERD) *Fitness gram/Activity gram*. Students will be made aware of the components of health-related fitness and how to evaluate their personal levels of fitness through their own self-measurement. The main goal of the *Fitness Gram* is to make students and parents aware of the student's fitness levels as compared to national standards.
2. **MOTOR SKILLS DEVELOPMENT:** Students will demonstrate competency and/or refine activity-specific to movement skill in weight training.
3. **SPORTS SKILLS TECHNIQUES:** This course takes place in the weight room and on the track. In the weight room students perform exercises that improve balance, power, raw speed, core strength, and sport specific strength. On the track students perform drills that improve quickness, measurable speed and sport specific speed.
4. **HEALTH:** Students will demonstrate knowledge of a variety of health-related subjects as related to weight room activities.
5. **NUTRITION:** Students will talk about nutrition and how it affects the ability to function both physically and mentally. Students will learn to find a balance between weight training and nutrition in order to reach their maximum potential.

LIFESAVING, CPR, AND FIRST AID

PED 230

Level: 10

Duration: One Semester - ½ Credit

Description: This course is designed to provide each individual student with the opportunity to develop health-related fitness, motor skills and movement forms, personal and social responsibility, and character development. Students will take the *American Red Cross course for Lifesaving, CPR, and Basic First Aid*. Students will be evaluated on *American Red Cross Standards*. **Fitness Skills, Motor Skills, Health-Related Subjects and Nutritional Subjects** will be taught within the confines of the subject material for Lifesaving, CPR, and Basic First Aid. Students who attend all classes, pass all skills and score 80% on the two written tests will be issued course certifications by the *American Red Cross*.

F. I. T.

PE 430F

Level: 11, 12

Duration: One Semester - ½ Credit

Description: This course is designed to provide each individual student with the opportunity to develop health-related fitness, motor skill and movement forms, personal and social responsibility and character development.

1. **FITNESS:** Students enrolled in this course will participate in a variety of physical fitness activities, individual sports and team sports.
2. **MOTOR SKILLS DEVELOPMENT:** Students will acquire and maintain physical fitness skills and motor skills related to individual and team sports.

3. **SPORTS SKILLS TECHNIQUES:** Each class students will participate in some type of physical fitness activity such as walking, running, or weight training. Each class students will participate in either team or individual sports. Students will be required to become proficient at many team and individual sports. These sports will include, but not be limited to football, soccer, softball, basketball, volleyball, table tennis, tennis, and bowling. Students will be tested on knowledge of rules of each sport.
4. **HEALTH:** Students will demonstrate knowledge of a variety of health-related subjects as related to fitness and individual and team sports. Students will use pedometer and heart rate monitors to evaluate their fitness.
5. **NUTRITION:** Students will be instructed on nutrition as related to overall fitness. Students will discuss nutritional intake as related to participation in individual and team sports.

WEIGHT TRAINING I

PE 430W

Level: 11, 12

Duration: One Semester - ½ Credit

Description: This course is designed to provide each individual student with the opportunity to develop health-related fitness, motor skill and movement forms, personal and social responsibility, and character development and preparation for sport participation. Students will engage in weight training.

1. **FITNESS:** Students who enroll in this elective course should be prepared to work out in the weight room each period. This will be a combination of strength and power work in the weight room and speed and agility work on the track.
2. **MOTOR SKILLS DEVELOPMENT:** Students will demonstrate competency and/or refine activity-specific movement skills in weight training.
3. **SPORTS SKILLS TECHNIQUES:** Students will demonstrate competency in weight training skills. Students will perform exercises that improve balance, power, raw speed, core strength, sport specific strength, improved quickness, measurable speed, and sport specific speed.
4. **HEALTH:** Students will demonstrate a knowledge of a variety of health-related subjects as related to weight training.
5. **NUTRITION:** Students will learn to find a balance between exercise and nutrition in order to reach their maximum potential. Students will discuss nutrition and its effect on the ability to function both physically and mentally.

WEIGHT TRAINING II

PE 431W

Level: 12

Duration: One Semester - ½ Credit

Description: This course is designed to provide each individual student with the opportunity to develop health-related fitness, motor skill and movement forms, personal and social responsibility, character development and preparation for sport participation. Students will engage in weight training.

1. **FITNESS:** Students who enroll in this elective course should be prepared to work out in the weight room each period. This will be a combination of strength and power work in the weight room. This class will focus on improving techniques for all Olympic lifts and learning advanced program building.
2. **MOTOR SKILLS DEVELOPMENT:** Students will demonstrate competency and/or refine activity-specific movement skills in weight training.
3. **SPORTS SKILLS TECHNIQUES:** Students will demonstrate competency in weight training skills. Students will perform exercises that improve balance, power, raw speed, core strength, sport specific strength, improved quickness, measurable speed and sport specific speed.
4. **HEALTH:** Students will demonstrate a knowledge of a variety of health-related subjects as related to weight training.
5. **NUTRITION:** Students will learn to find a balance between exercise and nutrition in order to reach their maximum potential. Students will discuss nutrition and its effect on the ability to function both physically and mentally. Discussion of PEDs and their effect on weight training will be studied.

ENDURANCE SPORTS

PE 430E

Level: 11, 12

Duration: One Semester - ½ Credit

Description: This course is designed to provide each individual student with the opportunity to develop health-

related fitness, motor skill and movement forms, personal and social responsibility, character development, and preparation for sport participation in endurance sports.

1. **FITNESS:** Students enrolled in this course should have an interest in learning about endurance sports, including distance running (5Ks, 10Ks, Half Marathons, Marathons), distance bicycling (road racing), distance swimming, and triathlons. Opportunities to participate in endurance events will be presented to students.

2. **MOTOR SKILLS DEVELOPMENT:** Students will demonstrate competency and or refine activity-specific movement skills in swimming, bicycling, and running.

3. **SPORTS SKILLS TECHNIQUES:** Students will demonstrate competency in training for endurance sports. Students should be prepared for training in swimming skills, rung skills and bicycling skills. Class time will be devoted to training for these endurance sports. Class time will be devoted to the practical aspects pertaining to training, race planning, fueling, equipment, and equipment repair. Field trips will be incorporated into the classroom curriculum.

4. **HEALTH:** Students will demonstrate knowledge of a variety of health-related subjects as related to endurance training. Students will plan a healthy training schedule appropriate to their level of competition.

5. **NUTRITION:** Students will learn to find a balance between exercise and nutrition in order to reach their maximum potential. Students will discuss proper fueling for endurance events. Fueling for races will be discussed and planned by students.

FITNESS AEROBIC TRAINING

PE 430A

Level: 11, 12

Duration: One Semester - ½ Credit

Description: This course is designed to provide each individual student with the opportunity to develop health-related fitness, motor skill and movement forms, personal and social responsibility and character development.

1. **FITNESS:** Students enrolled in this course will participate in a variety of physical fitness training. Students will set individual fitness goals at the beginning of the semester.

2. **MOTOR SKILLS DEVELOPMENT:** Students will acquire and maintain physical fitness skills and motor skills.

3. **SPORTS SKILLS TECHNIQUES:** A variety of training methods using but not limited to stationary bicycles, tread mills, elliptical machines and the swimming pool will be utilized to achieve individual fitness goals. Classes will be designed to help students achieve their individual fitness goals of weight loss, weight gain, and body sculpting. The goals of the class are individual cardio fitness and weight loss/gain.

4. **HEALTH:** Students will demonstrate knowledge of a variety of health-related subjects as related to fitness. Students will use pedometer and heart rate monitors to evaluate their fitness.

5. **NUTRITION:** Students will be instructed on nutrition as related to overall fitness. Proper intake, proper hydration, and the proper use of supplements will be discussed by students. Nutritional plans for weight loss/gain will be discussed and planned for each student.

PRACTICAL ARTS DEPARTMENT

Mission Statement: The mission of the Practical Arts Department is to be a multifaceted, academically diverse community committed to educating the whole person in Leadership, Technology, Engineering and Business Skills, while promoting ethics and interpersonal relationships in the Catholic Marianist tradition.

Vision Statement: The vision of the Practical Arts Department at Chaminade is to be an educational leader in the fields of Technology, Engineering, Business, and Leadership curricula. The Department strives to prepare Chaminade students to solve problems and to think logically and critically as it pertains to Technology, Engineering, Business, and Leadership.

Department Chairperson: Mr. Michael Massa, Class of '83 Ext. 1223 E-Mail: mmassa@chaminade-stl.org

MIDDLE SCHOOL COURSES

ESTO VIR LEADERSHIP 1

LEA 630

Level: 6

Duration: One Semester - ½ Credit

Description: This course is a technology-based, interdisciplinary course designed to provide in-depth instruction in core academic, social and personal skills. The primary objective of the course is to teach sixth graders practical tools needed for success at school and in life. Thus, it is consistent with Chaminade's mission of providing students with a high quality college preparatory education whose foundation resides firmly in the Catholic Marianist tradition. Esto Vir Leadership will begin with thorough instruction in keyboarding skills, various software applications, and other technologies that students will need to adequately complete academic requirements across the Chaminade curricula. Accordingly, course assignments and projects will require students to demonstrate both technological literacy as well as an understanding of the concepts taught from the academic, social and personal domains. Due to the interdisciplinary nature of this course, administration, faculty, and staff members with different areas of expertise will serve as "guest" instructors throughout the school year.

STEM: SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS PROGRAM

PLTW – PROJECT LEAD THE WAY

GTT – GATEWAY TO TECHNOLOGY

PLTW – GTT – MAGIC OF ELECTRONS

PLTW 63

Level: 6

Duration: One Semester - ½ Credit

Description: Magic of Electrons (ME): Through hands-on projects, students explore the science of electricity, behavior and parts of atoms, and sensing devices. Students acquire knowledge and skills in basic circuitry design and examine the impact of electricity on their lives.

PLTW – GTT – AUTOMATION AND ROBOTICS

PLTW 73

Level: 7

Duration: One Semester - ½ Credit

Description: Automation and Robotics (AR): Students trace the history, development, and influence of automation and robotics. They learn about mechanical systems, energy transfer, machine automation and computer control systems. Students use a robust robotics platform to design, build, and program a solution to solve an existing problem. Students will learn to use digital and analog sensors. C-based programming language and complicated mechanical systems to solve engineering problems will be utilized. The engineering problems will require collaboration between students and teams in order to cultivate sound communication skills.

PLTW – GTT – DESIGN AND MODELING

PLTW 83

Level: 8

Duration: One Semester - ½ Credit

Description: Students begin to recognize the value of an engineering notebook to document and capture their ideas. Students are introduced to and use the design process to solve problems and understand the influence that creative and innovative design has on their lives. Students use industry standard 3D modeling software to create a virtual image of their designs and produce a portfolio to showcase their creative solutions. As students continue to use their engineering sketchbook to document and capture their ideas, they will continue to use the design process to solve problems and understand the influence that creative and innovative design has on their lives. Students use 3D modeling software to create detail and assembly models showing creative solutions to engineering problems.

HIGH SCHOOL COURSES

ESTO VIR LEADERSHIP

LEA 130

Level: 9

Duration: One Semester - ½ Credit

Description: This ninth grade course consists of **two major areas** of concentration:

“Esto Vir” – This curriculum unit is divided into the following learning objectives: 1) an appreciation and study of the life/ history of Blessed William Joseph Chaminade and other individuals key to the development of his mission; an appreciation and study of the religious orders (especially, the Society of Mary) he helped found; an appreciation and study of the history of our school which bears his name; and, an appreciation and study of the significant signs and symbols that are representative of him in and around the school (i.e. the House System, the Five Characteristics of Marianist Education, our school seal/logo and colors, and any other notable symbolism); and, 2) the provision to examine a plan for achieving academic success at the start of high school and strategies for maintaining that success throughout a student’s career (includes discussions, particularly in relation to comprehensive note-taking skills).

“Leadership Skills” – This curriculum unit provides discussion and application of the concepts, philosophies, elements, tools, and practices of effective leadership. It focuses on leadership qualities and includes models, styles, skills, concerns, and applicable contemporaneous issues related to both leadership and management effectiveness. Emphasis is placed on situational leadership, servant leadership and development of proper values, and sound ethical decision-making skills. Students will be afforded opportunities to investigate and apply learned skills through combinations of discussion, projects, reflection essays/papers, problem-solving exercise, case studies, and role playing scenarios.

TECHNOLOGY CURRICULUM – DIGITAL MEDIA AND COMPUTER SCIENCE

TECHNOLOGY SKILLS

TEC 130

Level: 9

Duration: One Semester - ½ Credit

Description: This class is designed to introduce students to a wide range of technical skills that will enable them to be both college and career ready. It will encompass the following content: the use of laptops, phones and makerspace items. Students will be acclimated to Canvas LMS, laptop troubleshooting skills and other program software used by teachers in on campus. Students will gain skills in keyboarding, document formatting, spreadsheet manipulation, and other entry-level business skills. Additionally, they will have an understanding of computer networking, ethics, hardware, publishing and presentation techniques. Additionally, students will explore opportunities to explore the technological interest by individualizing their education into of the four fields of practical arts; STEM, Business, Computer Science and Digital Media. Students will create and design products that will help expose them to activities in the practical arts field. Students will explore the multitude of uses for technological tools in the workspace that enhances business, education and other professions.

INTRODUCTION TO DIGITAL MEDIA

IDM 230

Level: 10, 11, 12

Duration: One Semester - ½ Credit

Description: Students will be introduced to a variety of 21st century digital media concepts including video production, cinematography, shot composition, sequencing, interviewing techniques, lighting, audio, editing, social

media, digital photography, digital journalism, podcasting, live streaming, and website design. Students will select a topic of their choice at the beginning of the course which they will cover and promote using the digital media concepts taught throughout the course of the semester. Student learning outcomes include a digital media portfolio, incorporating various forms of assessment, that successfully communicates a message and promotes a unified brand using the tools of the modern world.

WEB PAGE DESIGN

WEB 430

Level: 10, 11, 12

Duration: One Semester - ½ Credit

Description: This course is designed to teach students web page and website design, development and function. This course will consist of lectures and projects. Students will develop websites that will be used for exploration of web development technologies (HTML, CSS, Bootstrap, Java Script and JQuery). Students will publish personal and dynamic pages.

COMPUTER NETWORKING AND OPERATING SYSTEMS

COM 435

Level: 10, 11, 12

Duration: One Semester - ½ Credit

Description: Students will learn basic networking procedures including design and implementation of LAN, WAN and wireless network. Course concepts will include network management, switching and routing of information. The course will explore the different networking features of the Windows Operating System and the advances in network technologies. The course will examine networking protocols such as TCP/IP and OSI models.

ACC ADVANCED MANAGEMENT INFORMATION SYSTEMS

MIS 470

ACC: University of Missouri - St. Louis

Level: 10, 11, 12

Duration: One Semester - ½ Credit

Description: This course teaches the methodologies of sensibly utilizing computer technology in a Microsoft Windows environment. Application program function will be introduced using the Microsoft Office Suite: Word, Excel, Outlook, Access, and PowerPoint along with web page design and development. Students will learn to integrate data and information between multiple applications as performed in real-life business situations. Topics relative to technology utilization including workplace implementations, technology limitations, security, ethics and legal consumer rights, as well emerging technologies will be explored. Characteristics of computer hardware as related to software implementation and maintenance will be discussed and researched.

AP COMPUTER SCIENCE PRINCIPLES

CPP 470

AP: Advanced Placement College Board

AP Computer Science Principles Exam is required.

Level: 10, 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: Current teacher recommendation and department chairperson approval.

Description: AP Computer Science Principles introduces the student to the foundations of computer science with a focus on how computing powers the world. Along with the fundamentals of computing, the student will learn to analyze data, create technology that has a practical impact, and gain a broader understanding of how computer science impacts people and society. The AP CSP course is organized around seven big ideas, which are essential to studying computer science: creativity, abstraction, data and information, algorithms, programming, the internet and global impact. The AP Exam is a requirement in this course.

AP COMPUTER SCIENCE/ADVANCED PROGRAMMING WITH JAVA

CPP 471

AP: Advanced Placement College Board

AP Computer Science A Exam is required.

Level: 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: Completion of AP Computer Science Principles; current teacher recommendation and department chairperson approval.

Description: This course is designed for the student who desires advanced computer programming techniques in preparation for the AP Computer Science Exam. This course emphasizes strict modular program design and implementation. Students will plan, construct, test and modify original programs which are specifically designed to reinforce key computer science concepts as determined by the AP College Board, using the JAVA computer language. The AP Exam is a requirement in this course.

ACC CISCO ACADEMY I: NETWORKING FUNDAMENTALS

CNA 370

ACC: CISCO Technology Academy

St. Louis Community College - Meramec

A grade of C or better awards 5 advanced college credits

Level: 11, 12

Duration: One Semester - ½ Credit

Prerequisites: Successful completion of either COM 430 and/or COM 435; current teacher recommendation and department chairperson approval.

Description: This course is designed to provide students with classroom and laboratory experience in current and emerging networking technology emphasizing: Network terminology and protocols, network standards, local area networks, wide area networks, OSI model, cabling and cabling tools, routing, Ethernet and fiber optic standards, and IP addressing and network standards. This course prepares students for the Cisco Certified Network Associate (CCNA) exam and the Network + exam. Online coursework: (login required) provided by Cisco Network Academy.

ACC CISCO ACADEMY II: ROUTERS AND ROUTING PROTOCOLS AND CONCEPTS

CNA 375

ACC: CISCO Technology Academy

St. Louis Community College - Meramec

A grade of C or better awards 5 advanced college credits

Level: 11, 12

Duration: One Semester - ½ Credit

Prerequisites: Successful completion of Cisco Academy I course; current teacher recommendation and department chairperson approval.

Description: This course is designed to provide students with classroom and laboratory experience in current and emerging networking technology emphasizing: the OSI model, LANS, WANS, TCP/IP, routers, router configuration, routed and routing protocols, internet work operating system images, and network troubleshooting. Students will become familiar with the use of command protocols and how to configure and troubleshoot a router networked topologies. This course prepares students for the Cisco Certified Network Associate (CCNA) exam and the Network + exam. Online coursework: (login required) provided by Cisco Network Academy.

BUSINESS CURRICULUM

INTRODUCTION TO BUSINESS AND PERSONAL FINANCE

BUS 230

Level: 10, 11

Duration: One Semester - ½ Credit

Description: This course is intended to introduce students to business concepts and systems. The course will cover the following areas: economics, ethics, investment law, entrepreneurship, global economy, marketing, human resource management, business technology, personal finance and credit, law, insurance, and business careers. The objective of this course is to get students interested in the world of business and finance.

FINANCIAL ACCOUNTING

ACC 430

Level: 11, 12

Duration: Two Semesters - 1 Credit

Description: Financial accounting is an elective in the area of business education. It is an introduction to the generally accepted accounting principles and the practices of the accounting profession. It introduces the proper

techniques for gathering, summarizing and making financial reports for investors. Students learn to make logical business decisions based upon the financial information. This course is a good introduction for students who are pursuing a business degree, desire to own their own business or just wanting to learn how to make smart personal financial decisions. Other topics covered include investing, taxes, and business ownership.

BUSINESS LAW

LAW 430

Level: 11, 12

Duration: One Semester - ½ Credit

Description: This course is a good introduction for students contemplating any type of business degree. This course will give students a better understanding of their rights and duties as citizens. It prepares students to recognize and understand legal principles or problems which affect them throughout their lives. General rules of law, as well as the many exceptions, are covered on a variety of topics including kinds of law, ethics, court systems, crimes and torts, and fundamental aspects of contract law.

INTERNATIONAL BUSINESS

BUS 430

Level: 11, 12

Duration: Two Semesters - 1Credit

Description: This course serves a broad based introduction to the field of international business. This course will introduce students to the understanding of the interrelationships between different countries' political and economic policies and business practices. Topics to be covered include: the fundamentals and impact of international trade, environmental factors, ethical issues in a global economy, international institutions and governance, global business organization and operation and management practices.

PRINCIPLES OF MICROECONOMICS

ECO 430

Level: 11, 12

Duration: Two Semesters - 1Credit

Description: This full credit course serves as an introduction to the principles of both macroeconomics and microeconomics. Topics will include: a basic introduction to economics – the economic problem, systems, tools and sectors; how markets operate – supply and demand and market forces, structures and institutions; the national economic performance, growth and challenges; U.S. economic public policy – fiscal policy, monetary policy and money and banking; and, international trade and global economy. The AP Microeconomics Exam is optional.

AP MACROECONOMICS

ECO 470

AP: Advanced Placement College Board

Optional AP Macroeconomics

Level: 11, 12

Duration: Two Semesters - 1 Credit

Description: This course is a good introduction for students contemplating any type of business degree. This full credit course is designed to instill in students an understanding of their role as citizen, consumer, and producer within the economic system of society. The course is designed to address both the theoretical and practical concepts of economics. The first semester focuses on economic foundations and microeconomic principles, mainly in the U.S. The second semester addresses U.S. macroeconomic principles. Global economics and international trade are also discussed in each semester. The AP Macroeconomics Exam is optional.

STEM - SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS PROGRAM

PLTW – PROJECT LEAD THE WAY

STEM: INTRODUCTION TO ENGINEERING DESIGN

PLTW 23

Level: 9 (with 8th grade teacher recommendation) 10, 11

Duration: Two Semesters - 1 Credit

Prerequisite: 8th Grade PLTW – GTT; current teacher recommendation and department chairperson approval for 9th grade enrollment.

Description: Introduction to Engineering Design (IED) is a high school level foundation course in the PLTW Engineering Program. In IED students are introduced to the engineering profession and a common approach to the solution of engineering problems, an engineering design process. Utilizing the activity-project-problem-based (APPB) teaching and learning pedagogy, students will progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Through both individual and collaborative team activities, projects, and problems, students will solve problems as they practice common engineering design and development protocols such as project management and peer review. Students will develop skill in technical representation and documentation of design solutions according to accepted technical standards and they will use current 3D design and modeling software to represent and communicate solutions. In addition, the development of computational methods that are commonly used in engineering problem solving, including statistical analysis and mathematical modeling are emphasized. Ethical issues related to professional practice and product development are also presented. IED is a college credit course. All activities, assignments and assessments will be created at a “high school appropriate environment” to earn college level skills and content. This class involves higher level algebra and basic geometry skills.

STEM: PRINCIPLES OF ENGINEERING

PLTW 33

Level: 10, 11 (*with completion of PLTW-IED*), 12 (*with completion of PLTW-IED*)

Duration: Two Semesters - 1 Credit

Prerequisites: PLTW 23; current teacher recommendation and department chairperson approval.

Description: Principles of Engineering (POE) is the second foundation courses in the Project Lead the Way (PLTW) high school pre-engineering program. This is a foundation course specifically designed for students interested in furthering their knowledge into design and engineering. This POE course exposes students with real-world learning and hands-on experiences. Students interested in engineering, biomechanics, aeronautics, and other applied math and science arenas will discover PLTW is an exciting portal into these industries. This course of engineering exposes students to major concepts they will encounter in a postsecondary engineering course of study. Students employ engineering and scientific concepts in the solution of engineering design problems. Students develop problem solving skills and apply their knowledge of research and design to create solutions to various challenges, documenting their work and communicating solutions to peers and members of the professional community. POE is a college credit course. All activities, assignments and assessments will be created at a “high school appropriate environment” to learn college level skills and content. This class heavily involves higher algebra and geometry skills. Algebra, geometry, and trigonometry are used substantially in this course throughout the year.

STEM: ENVIRONMENTAL SUSTAINABILITY

PLTW 43

Level: 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: PLTW 23 completed in 9th or 10th grades; PLTW 33 completed in 10th or 11th grades; current teacher recommendation and department chairperson approval.

Description: Environmental Sustainability (ES) is a high school-level specialization course in PLTW engineering. In ES, students investigate and design solutions to solve real-world challenges related to clear drinking water, a stable food supply, and renewable energy. Students are introduced to environmental issues and use the engineering design process to research and design potential solutions. Utilizing the activity-, project-, problem-based (APB) teaching and learning pedagogy, students transition from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

STEM: DIGITAL ELECTRONICS

PLTW 44

Level: 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: PLTW 23 IED Introduction to Engineering Design completed in 9th or 10th grades; and/or PLTW 33 POE Principles of Engineering completed in 10th or 11th grades; current teacher recommendation and department chairperson approval.

Description: Digital electronics is the study of electronic circuits that are used to process and control digital signals.

In contrast to analog electronics, where information is represented by a continuously varying voltage, digital signals are represented by two discrete voltages or logic levels. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world of electronics. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Utilizing the problem based teaching and learning pedagogy; students will analyze, design, and build digital electronic circuits. While implementing these designs, students will continually hone their professional skills, creative abilities, and understanding of the circuit design process.

NATURAL HISTORY AND ENVIRONMENT FIELD COURSE

NHE 430

Level: Summer Between 10 & 11, or between 11 & 12

Duration: Eight Day Summer Program - ½ Credit

Prerequisites: Recommendation from counselors. Additional fee required for this course.

Description: This outdoor seminar is the longest running experiential education program at Chaminade. Students are immersed in the subject of their study and learning about natural history, ecology, and geology as they hike in Rocky Mountain National Park, Colorado or in Olympic National Park, Washington. A student's grade is based on field notes, field labs, photo documentations, participation in evening seminars, and a final Power Point summarizing the topics studied during the week. The subject matter, nature, provides a vehicle for students to learn about the learning process and the aesthetic of creation. Living communally helps students learn about themselves.

SCIENCE DEPARTMENT

Mission Statement: The Science Department's mission is to create Chaminade graduates who are scientifically literate, who are technologically competent and who are creative problem-solvers. The Science Department reflects Chaminade Marianist values by cultivating a community of faith in God and an increased sense of wonder in the world.

Vision Statement: The Science Department aims to give each student an understanding of the nature of science as a direct result of observation and experimentation. This is accomplished through exposure to a variety of lab-based courses that help students incorporate inquiry, real life examples, and technology into their understanding of science, now and into the future. A consistent effort is made to integrate the theoretical aspects of the discipline with real life experiences of the students.

Department Chairperson: Mr. Tim Pendleton, Class of '89 Ext. 1252 Email: tpendleton@chaminade-stl.org

MIDDLE SCHOOL COURSES

Listed below are the **HIGH SCHOOL SCIENCE READINESS CONCEPTS** integrated in the Middle School Science courses:

- **The content areas covered are life science, earth/space science, and physical science**
- **Interpret data by translating information into a table, graph, or diagram**
- **Understand scientific investigation by performing multistep experiments using a various methods and tools**
- **Understand simple experimental design**
- **Evaluate an experiment and evaluate the hypothesis, prediction, or conclusion with data**

MIDDLE SCHOOL COURSES

BIOLOGICAL EXPLORATIONS

SCI 630

Level: 6

Textbook Level: 8

Duration: Two Semesters - 1 Credit

Description: This course is designed to challenge sixth graders entering Chaminade. The curriculum is based upon biological studies. Exploration is a key component of the course. The students will actively be involved in the learning process as they complete "hands-on" labs designed to complement each topic. First semester concepts include tools used by the life scientist, the origin of life, defining the characteristics of living things, cell theory, classifying, viruses, Kingdom Monera, Kingdom Protista, and Kingdom Fungi. Second semester concepts include Kingdom Plantae and Kingdom Animalia. The second semester also includes a week of intensive outdoor science education at the Teton Science School in Jackson, Wyoming.

INTRODUCTION TO HUMAN SYSTEMS

SCI 730

Level: 7

Textbook Level: 8

Duration: Two Semesters - 1 Credit

Description: This course is designed to teach about the five aspects of health: physical, social, mental/emotional, intellectual, and spiritual. Focusing on overall health, one part of this course is an introduction to the anatomy, physiology, and common ailments of the human body. The other component of this course focuses on a working knowledge of decision-making skills, stress management, personality, interpersonal relationships, hygiene, exercise, diet, human development, and more. Laboratory exercises focus on observing ways that the body responds to stimuli. Some of these are measuring respiratory volume, designing a way to measure the effect of temperature and fatigue on muscle performance, discovery through dissection of various organs, and discovering how the effects of stress

and individual learning styles can affect performance. A variety of tools are used in these labs as well as using the scientific method. Predicting outcomes and then comparing experimental results to those hypotheses are integral to this course.

APPLIED GEOSCIENCES

SCI 830

Level: 8

Textbook Level: 9

Duration: Two Semesters - 1 Credit

Description: Applied Geosciences involves collaborative studies in geological and meteorological science while integrating basic skills and content from the core sciences of physics, chemistry, and biology. In this course students will construct a foundation of geo science knowledge by engaging in worldly topics regarding the physical world around them and then evaluating the functions of natural processes through experimentation. They will further use this knowledge to help them make informed analyses of current events that include environmental topics, natural resources, and space exploration.

HIGH SCHOOL COURSES

ACT COLLEGE READINESS CONCEPTS integrated in the High School Science courses:

- **Critical Thinking**
- **Reasoning**
- **Problem-Analysis**
- **Writing**

CONCEPTUAL PHYSICS

SCI 130

Level: 9

Duration: Two Semesters - 1 Credit

Description: Physics is required of all ninth grade students as a preparation for further scientific study. The course is laboratory oriented with emphasis placed upon discovery and understanding, rather than memorization of facts. Students will learn to use inductive and deductive reasoning along with cause and effect relationships to solve problems. This course involves a heavy dependence on algebra skills, use of calculators, and graphing work. Learning the scientific method provides students with the fundamental theory and laboratory experience that will be useful in future scientific studies. Emphasis is placed on basic physics: study of forces, laws of motion, energy, simple machine function; and basic chemistry: study of the periodic table, atomic structure, and classification of matter.

CHEMISTRY

CHE 230

Level: 10

Duration: Two Semesters - 1 Credit

Description: This course is designed for students to gain a better understanding of the world of matter and energy. Students will study: measurement, metrics, reactions, atomic structure, the periodic table, bonding, states of matter, solutions, gases, oxidation-reduction, and acid-base chemistry. Students will perform laboratory investigations using the scientific method. Many units of study involve calculations. Therefore, a solid math background is helpful.

HONORS CHEMISTRY

CHE 250

Level: 10

Duration: Two Semesters - 1 Credit

Prerequisites: 80% in Algebra I; current teacher recommendation and department chairperson approval.

Description: This course is designed for motivated students to gain a better understanding of the world of matter and energy. Through extensive study and individual effort, students will learn about: measurement, metrics, atomic structure, the periodic table, bonding, states of matter, solutions, equilibrium, kinetics, gases, thermodynamics, oxidation-reduction, and acid-base chemistry. Honor students are expected to perform intricate lab procedures with

accuracy. Lab writing for an honors student should be neat, deep, and complete. A superior math background and problem-solving ability is a requirement for honors chemistry.

AP/ACC CHEMISTRY

CHE 470

AP: Advanced Placement College Board
AP Chemistry Exam is required.

ACC: University of Missouri - St. Louis

Level: 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: CHE 230 or CHE 250; current teacher recommendation and department chairperson approval.

Description: This course is equivalent to a college level general chemistry course that provides rigorous study in six major areas: structure of matter, properties of matter, chemical reactions, rates of reactions, thermodynamics, and equilibrium. Students must be highly motivated to tackle this rigorous course. At the end of the year, students are required to take the Advanced Placement Exam for college credit. Students taking this course may be required to complete laboratory work outside of the regular class time. The student will demonstrate a basic understanding of, and the ability to apply, mathematical solutions to problems involving atomic theory and structures, chemical bonding, nuclear chemistry, kinetic theory, solutions, reaction types, stoichiometry, equilibrium, kinetics, thermodynamics, and descriptive chemistry. Evaluation is based on homework, lab reports, and tests. The course requires a time commitment of 6-10 hours per week for homework.

BIOLOGY

BIO 330

Level: 11

Duration: Two Semesters - 1 Credit

Description: The purpose of this course is to develop a basic understanding of the fundamental principles governing living systems. The course begins with an introduction to biochemistry and moves through the basic structures and functions of cells. The course then covers the principles of heredity, with an emphasis of the theory of natural selection. Students will learn a variety of lab skills through required and extensive lab work.

HONORS BIOLOGY

BIO 350

Level: 11

Duration: Two Semesters - 1 Credit

Prerequisites: Current teacher recommendation and department chairperson approval.

Description: The purpose of this course is to develop an understanding of the principles governing living systems. This course covers the same basic material as (BIO 230) but it is a more intense, and thorough explanation, covering topics in greater depth. Enrichment materials are also utilized and extensive lab work is required.

AP/ACC BIOLOGY

BIO 470

AP: Advanced Placement College Board
AP Biology Exam is required.

ACC: University of Missouri - St. Louis

Level: 12

Duration: Two Semesters - 1 Credit

Prerequisites: 80% in CHE 230 or CHE 250, 80% in BIO 330 or BIO 350; current teacher recommendation and department chairperson approval.

Description: This course explains in detail the principles governing living systems. The goal is to prepare the students for their college biology courses and to give college credit for all students. It begins with a biochemical assessment of life followed by the cellular biology and genetics. Theories of evolution and common descent along with the five kingdom system of classification are used to explain the development and workings of organ systems and ecological interactions of species. Throughout the course, lab exercises are used to aid the study process. Students will take the AP exam at the conclusion of this course.

ANATOMY & PHYSIOLOGY

ANP 430

Level: 12

Duration: Two Semester - 1 Credit

Description: This course covers the fundamentals of human anatomy and physiology. Students will acquire the understanding of the human body and how it works through lecture and laboratory work covering anatomical terminology, basic chemistry, hemostasis, cells and tissues, and the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, circulatory, lymphatic, immune, respiratory, digestive, urinary, and reproductive systems. Laboratory work will supplement the lecture and will include some dissections.

AP ENVIRONMENTAL SCIENCE

ENV 470

AP: Advanced Placement College Board

Optional AP Environmental Science Exam is available.

Level: 12

Duration: Two Semesters - 1 Credit

Prerequisites: SCI 130, CHE 230/250, BIO 330/350; current teacher recommendation and department chairperson approval.

Description: This course is the equivalent of a one-semester introductory college course which allows students to either pursue a more advanced study of environmental science or to fulfill a basic science requirement in college. In this course, students examine the interrelationships in the natural world and analyze both naturally occurring and human made environmental problems. Topics covered include: earth systems and resources, ecosystems, land and water use, energy resources and consumption, population, global change, sustainability, air and water pollution, global climate change, and biodiversity loss. This applied science course has a significant laboratory component that stresses collection and interpretation of data using the scientific method. Part of the lab component also includes conducting water quality monitoring tests using protocol and materials developed by the Missouri Department of Conservation. These monitoring labs are done on campus on Sun Swept creek on the western border of campus. Results of the monitoring labs are reported to the Missouri Department of Conservation. The course prepares students for the optional, yet highly recommended AP Environmental Science Exam.

FORENSIC SCIENCE

FOR 430

Level: 11, 12

Duration: One Semester - ½ Credit

Prerequisites: CHE 230/250, BIO 330/350.

Description: An introduction into the scientific study that deals with the recognition, identification, and evaluation of physical evidence of a crime scene. Techniques learned will be fingerprinting, chromatography, blood splatter, evidence collection, and crime scene analysis.

PHYSICS

PHY 430

Level: 11, 12

Duration: Two Semesters - 1 Credit

Description: This course is designed as a second year college preparatory physics course for students who wish to have a well-rounded science background, and/or desire to prepare for engineering or science in college. Students will learn the fundamentals of physics: forces, motion, energy, momentum, waves, sound, and light. The nature of physics demands that students be prepared to spend a considerable amount of time in problem solving on a regular basis. Use of computer data collection in labs is prevalent.

AP/ACC HONORS PHYSICS 1

PHY 470

AP: Advanced Placement College Board

Optional AP Physics 1 Exam is available.

ACC: Saint Louis University 1818

University of Missouri - St. Louis

Level: 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: ALG 350 (Honors Algebra 2), CAL 350 (Honors Pre-Calculus/Trigonometry), or math placement exam; current science teacher recommendation; approval of Honors Physics teacher; current teacher recommendation and department chairperson approval.

Description: This course is designed as an intensive college preparatory physics course for students who intend to major in engineering, math, science, or pre-med in college. Students will learn the fundamentals of physics: Kinematics, Newton's Laws of Motion, Torque, Rotational/Circular Motion, Work, Energy, Power, Linear and Angular Momentum, Oscillations, Mechanical Waves, Sound, and an Introduction to Electric Circuits. Students should be prepared to spend a considerable amount of time in advanced problem solving on a regular basis. Use of computer data collection is prevalent. The Advanced Placement Physics 1 Exam is administered at the end of the course.

AP/ACC HONORS PHYSICS 2

PHY 471

AP: Advanced Placement College Board

Optional AP Physics 2 Exam is available.

ACC: Saint Louis University 1818

Level: 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: AP Physics 1 with a 80%=B or better. ALG 350 Honors Algebra 2, CAL 350 Honors Pre-Calculus/Trigonometry, or math placement exam; current science teacher recommendation, approval of Honors Physics instructor and department chairperson approval.

Description: This course is designed as a follow-up to the AP Physics 1 course and is for students who intend to major in engineering, math, science, or pre-med in college. Students will learn the fundamentals of physics: Static and Dynamic Fluids, Thermodynamics, Electrostatics, Electrical Circuits, Magnetic Fields, Electromagnetism, Physical and Geometric Optics, and Topics in Modern Physics. Students should be prepared to spend a considerable amount of time in advanced problem solving on a regular basis. Use of computer data collection is prevalent. optional.

PLEASE NOTE:

Optional AP Physics C: Electricity & Magnetism Exam is available.

Optional AP Physics C: Mechanics Exam is available.

EXPERIMENTAL DESIGN AND LABORATORY RESEARCH

EDL 430

Level: 11, 12

Duration: One Semester - ½ Credit

Prerequisites: Current teacher recommendation and department chairperson approval.

Description: This course is designed as a college preparatory STEM course for students who intend to major in any science, engineering, math, pre-med, or any other STEM major in college. Students will learn the fundamentals of Laboratory and Experimental Methods with a focus on experimental research, design, fabrication, and implementation. Students will meet with their advising science teacher ninety minutes every other day to research, design, and study various laboratory techniques necessary for science laboratory research which could include life, chemical, and physical science topics. Students will also learn how to read scientific journals and be able to understand and apply techniques learned from this literature. As a significant part of student assessment for this course the student will be required to maintain a laboratory portfolio with at least two major STEM research projects designed for application in middle or high school science or technology classrooms. Successful execution of these projects will also be a part of the evaluation. Students who complete this course will be better prepared to conduct college based laboratory research and will be more competitive with contemporaries seeking research assistant and teachers' assistant positions at any university.

SOCIAL STUDIES DEPARTMENT

Mission Statement: In support of the mission of Chaminade College Preparatory School, which is tasked with educating students in the light of faith, the Social Studies Department seeks to equip students with historical understanding and perspective, global awareness, an appreciation for cultural and human diversity, and a willingness to engage an increasingly dynamic and inter-connected world.

Vision Statement: Through the use of various pedagogical approaches and technological innovations, such as flipped classrooms, blended classrooms, and Socratic seminars, and a variety of assessments, such as argumentative essays, document-based essays, book reviews, oral reports and travel brochures, the Social Studies Department seeks to impassion students with a life-long desire to learn about their world and to love and understand their neighbor. Towards that end, each student will be challenged to develop a set of critical thinking skills - exploring context, gathering, synthesizing and assessing data, determining cause and effect relationships, determining the effect of change over time - that will allow him to meet these objectives.

Department Chairperson: Mr. Robert Murphy Ext. 1163 Email: rmurphy@chaminade-stl.org

MIDDLE SCHOOL COURSES

Listed below are the **HIGH SCHOOL SOCIAL STUDIES READINESS CONCEPTS** integrated in the Middle School Social Studies courses.

Social studies passages are selected from published works of nonfiction and represent diverse points of view.

- **Develop literal-level of reading skills**
- **Develop ability to make inferences**
- **Draw generalizations and conclusions about a situation presented in a text**
- **Recognize clear cause-effect relationships within a passage**
- **Learn to reason logically**

ANCIENT CIVILIZATIONS & MODERN WORLD

SST 630

Level: 6

Textbook Level: 7

Duration: Two Semesters - 1 Credit

Description: Ancient Civilizations & the Modern World is a course that will introduce sixth grade students to social studies skills through the medium of ancient cultures. Lessons throughout the year will engage students in essential social studies concepts: critical thinking, literal-level reading skills, map reading and inference skills, and identifying cause-effect relationships. In conjunction with the English curriculum, students will learn to support their own conclusions with evidence from primary and secondary sources. In terms of content, students will examine the historical and social contributions of Mesopotamia, Egypt, the Israelites, Greece, Rome, China, and Mesoamerica, so that they can draw conclusions about the connection between the ancient civilizations and the contemporary world.

ADVANCED STUDIES IN GEOGRAPHY

SST 730

Level: 7

Textbook Level: 8

Duration: Two Semesters - 1 Credit

Description: This course is designed to help students build skills and knowledge essential to understand the world and the way it affects their lives. Students will draw generalizations and conclusions about situations presented in class. Students will recognize clear cause-effect relationships within passages. Students will learn to reason logically and will focus on and examine the five histories of geography (political, economic, military, social, intellectual). An appreciation for cultural diversity and gender issues is a focus for this course along with research, writing, and public speaking.

TOPICS IN AMERICAN HISTORY

SST 830

Level: 8

Textbook Level: 9

Duration: Two Semesters - 1 Credit

Description: This course has been designed to show how and why particular events occurred in our society. Rather than follow the traditional chronology of American history, this course will focus on those topics which have shaped our history and continue to impact our lives today. The issues to be studied include politics and government, economics, immigration, the military, diplomacy, cultural diversity, gender issues, agriculture, religions, and regional differences. This course will develop critical and literal levels of reading skills, as well as the ability to make inferences into the material. The students will learn to draw conclusions and generalizations about situations presented in the reading materials. Furthermore, they will recognize cause-effect relationships in addition to the development of logical reasoning pertaining to historical information.

HIGH SCHOOL COURSES

ACT COLLEGE READINESS CONCEPTS integrated in the High School Social Studies courses:

- **Critical Thinking**
- **Reasoning**
- **Problem-Analysis**
- **Writing**

WORLD HISTORY TO 1800

SST 130

Level: 9

Duration: Two Semesters - 1 Credit

Description: The first semester of this course offers a history of ancient times and man's earliest civilizations. This includes not only the history of the Middle Eastern civilizations, but also the history of Egypt, Greece, Rome, Africa, and a brief overview of the ancient Indian and Chinese civilizations. The second semester offering summarizes almost 1,400 years of human experience, from the collapse of the Western Roman Empire to the eve of the French Revolution. Cultural diversity and gender issues are discussed. Research, writing, and oral presentations are emphasized throughout the year.

HONORS WORLD HISTORY TO 1800

SST 150

Level: 9

Duration: Two Semesters - 1 Credit

Prerequisites: 90% or higher in Social Studies and 90% or higher in English; eighth grade teacher recommendation and department chairperson approval.

Description: This course is designed for freshmen students suited for an accelerated curriculum. Students who take this course will be fully prepared to take AP European History, AP U.S. Government/Comparative Government, AP U.S. History, and/or AP World History in subsequent years. The course begins with an in depth study of the world's first civilizations and continues with detailed analysis of Asian, African, European, and South American civilizations from their founding through approximately 1800 A.D. An effort will be made to show changes and continuities in these ancient and medieval societies and how cultural diffusion played a major role in their development. Reading, writing, research, study, presentation, and critical thinking skills will be emphasized.

MODERN WORLD HISTORY

SST 230

Level: 10

Duration: Two Semesters - 1 Credit

Description: The history component of this class will involve a detailed analysis of modern world history from the Renaissance to the present day. The foundations of modern Western society will be identified and evaluated. Students will assess the impact the Western world and the non-Western world have had upon each other over the last 500 years. A special effort will be made to assess the manner in which the past has shaped present world society and will shape the future of world society.

ACC HONORS MODERN WORLD HISTORY

SST 270

ACC: University of Missouri - St. Louis

Level: 10

Duration: Two Semesters - 1 Credit

Prerequisites: Students are required to have a 90% or above cumulative grade point average; a student's score at the 90th percentile or above on a standardized test; current teacher recommendation and department chairperson approval.

Description: This course is designed for sophomore students suited for an accelerated curriculum. Students who take this course will be fully prepared to take AP European History, AP US Government/Comparative Government, AP U.S. History, and AP World History in subsequent years. Several outside sources will be used to supplement the textbook and students will be involved in a concerted effort to develop analytical writing skills. The history component of this course will involve a detailed analysis of modern world history from the Scientific Revolution to the present day. The foundations of modern Western society will be identified and evaluated. Students will assess the impact the Western world and the non-Western world have had upon each other over the last five hundred years. A special effort will be made to assess the manner in which the past has shaped present world society and will shape the future of world society.

AP/ACC WORLD HISTORY

SST 271

AP: Advanced Placement College Board

AP World History Exam is required.

ACC: St. Louis University 1818

Level: 10, 11,12

Duration: Two Semesters - 1 Credit

Prerequisites: Students are required to have a 90% or higher cumulative grade point average; standardized test scores will be considered in determining placement; current teacher recommendation and department chair approval.

Description: The purpose of this course is to develop greater understanding of the evolution of global processes and contacts in interaction with different types of societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. Focused primarily on the past thousand years of the global experience, the course builds an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage prior to 1000 a.d. Periodization, explicitly discussed, forms the organizing principle for dealing with change and continuity from that point to the present. Specific themes provide further organization to the course, along with the consistent attention among societies that form the core of world history as a field of study.

ACC SURVEY OF U.S. HISTORY

SST 370

ACC: University of Missouri - St. Louis

Level: 11

Duration: Two Semesters - 1 Credit

Description: This course is a traditional survey of American history. The first semester begins with the Age of Discovery and ends with Reconstruction. The second semester begins with the Gilded Age and progresses through modern times. The student is made more aware of himself, his community, his society, and his nation's history, as he learns to think as an individual. Students are encouraged to discuss the problems of their society so that they will develop an appreciation of it. They will also gain knowledge of the traditions of our nation. A global awareness is always a major emphasis in this course, along with an appreciation of cultural diversity and gender issues. Public speaking, research and writing are emphasized along with critical thinking. Students will also study and demonstrate proficient knowledge of the Missouri and United States Constitutions.

AP/ACC U.S. HISTORY

SST 371

AP: Advanced Placement College Board

AP U. S. History Exam is required.

ACC: St. Louis University 1818

University of Missouri - St. Louis

Level: 10, 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: Students are required to have a 90% or higher cumulative grade point average; standardized test scores will be considered in determining placement; current teacher recommendation and department chairperson approval.

Description: The Advanced Placement Program in U.S. History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in American History. This program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those of full-year introductory college courses. Students will learn to assess historical materials - their relevance to a given interpretive problem, their reliability, and their importance - and to weigh the evidence and develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. The first semester will begin with the Age of Discovery and end with the Civil War. The second semester will cover the period between the Civil War and the 1990's. Cultural diversity and gender issues are a constant theme throughout the year. Important African Americans, Native Americans, Asian Americans, Hispanic Americans, and women are studied as well. Students will also study and demonstrate proficient knowledge of the Missouri and United States Constitutions. At the conclusion of the course the student is required to take the Advanced Placement Exam in American History.

AP/ACC PSYCHOLOGY

PSY 470

AP: Advanced Placement College Board

Optional AP Exam is available.

ACC: St. Louis University 1818

University of Missouri - St. Louis

Level: 11, 12

Duration: One Semester - ½ Credit

Description: Psychology offers the student a college level course opportunity to understand the basic methods, concepts, and principles of the whole field of psychology and their relevance to his world and school culture. The student aided by the possibility to think critically, experiences psychology and practices psychology as an advanced learning experience. Using many methods, the student is given a rare exposure to the richness of the field of psychology. Cultural diversity and gender issues are a constant part of the course as well as research, writing, and public speaking. The AP Exam is optional in this course.

ACC CONTEMPORARY GLOBAL ISSUES

SST 470

ACC: St. Louis University 1818 (*1st semester*)

University of Missouri - St. Louis (*2nd semester*)

Level: 12

Duration: Two Semesters - 1 Credit

Description: This course is the culminating effort of the Social Studies Department at Chaminade College Preparatory School. It will focus and hone the skills of the social studies student so that he may be prepared for responsible citizenship in the United States and the world. Knowledge of Ancient World History, Modern World History, and United States History will be utilized to form a framework with which to examine a dynamic and increasingly global world community. Specific attention will be directed to the issues of: Sustainability, Human Rights, Conflict Resolution, Intercultural Understanding, and Global Citizenship. This course is available for dual credit through the University of Missouri-St. Louis (Political Science, Fall Semester), and St. Louis University (International Studies, Spring Semester). With the successful completion of this course, a student may earn up to three college credits hours through the University of Missouri-St. Louis and /or four college credit hours through St. Louis University.

AP/ACC U. S. GOVERNMENT/AP COMPARATIVE GOVERNMENT

SST 471

AP: Advanced Placement College Board

AP U. S. Government Exam is required.

Optional AP Comparative Government Exam is available.

ACC: University of Missouri - St. Louis

Level: 10, 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: Students are required to have a 90% or higher cumulative grade point average; standardized test scores will be considered in determining placement; current teacher recommendation and department chair approval.

Description: This course fills the requirements for two Advanced Placement Exams: U.S. Government and Comparative Government and the content will be taught simultaneously. The course is designed to provide students with an analytical perspective on governmental systems and politics and will do so using both general concepts and specific examples. Class time will focus on U.S. Government and political systems in preparation for the mandatory AP United States Government Exam. Instruction will include college-level reading and writing, Socratic discussion, project-based instruction, and experiential education through field trips, guest speakers, and participation in debates. For two weeks during the first semester, students will intensely study the global perspective from AP Comparative Government, (China, Great Britain, Iran, Mexico, Nigeria, and Russia) as well as begin to look at specific examples from the case studies used in the course. Students' preparation for this optional AP Exam will include readings from a textbook provided by the department, online tutorials and quizzes, and one-on-one work with the instructor.

AP/ACC EUROPEAN HISTORY

SST 472

AP: Advanced Placement College Board
AP European History Exam is required.

ACC: University of Missouri - St. Louis

Level: 10, 11, 12

Duration: Two Semesters - 1 Credit

Prerequisites: Students are required to have a 90% or higher cumulative grade point average; standardized test scores will be considered in determining placement; current teacher recommendation and department chair approval.

Description: Students will be involved in a detailed analysis of European history from medieval times to the present day. The foundations of Western society will be identified and evaluated. Students will assess the impact the Western World and the non-Western World have had upon each other over the last 600 years. A special effort will be made to assess the manner in which the past has shaped present Western society and will shape the future of Western society. The AP Exam is required in this course. Advanced College Credit is available for this course.

ESL SOCIAL STUDIES

ESS 100

Level: 9, 10, 11

Duration: Two Semesters - 1 Credit

Prerequisite: A first-year international student; department chairperson approval.

Description: This course is a traditional survey course of United States history from an American perspective and examines the growth of the United States from its earliest settlers to modern times. It is open to first-year international students and will utilize appropriately leveled readings which support both content and language learning. Special emphasis is placed on the founding principles of the United States, and examining how those principles have guided us through our nation's still young history. While studying America's great contributions for the world, we maintain a global awareness, along with an appreciation of cultural diversity and gender issues. Public speaking, research, and writing are emphasized along with critical thinking. When applicable, and in conjunction with the residence hall activity schedule, efforts will be made for the class to leave campus and experience history and historical places first-hand. The student will be made more aware of himself and his role in his community and society as he learns to think as an individual. Students are encouraged to discuss the problems of society so that they will develop an appreciation of how these problems have been managed.