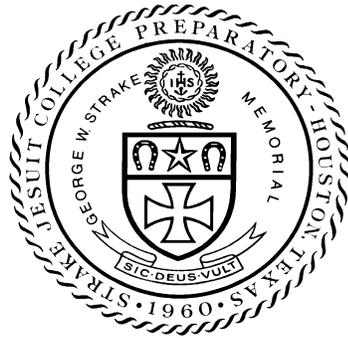


A.M.D.G.



STRAKE JESUIT COLLEGE PREPARATORY

Course Descriptions

2019 - 2020

THEOLOGY

111 THEOLOGY 1 - GOD'S REVELATION IN JESUS CHRIST

1 CREDIT

During the fall semester, students gain a general knowledge and appreciation of the "Sacred Scriptures. Through their study of the Bible they come to encounter the living Word of God, Jesus Christ. In the course they learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. They become familiar with the entire narrative of Salvation History held in the Old and New Testaments. They then learn how to read and interpret the Bible, with particular attention to the Gospels, where they may grow to know and love Jesus Christ more personally. Attention is paid to the theological, linguistic, historical, and literary questions that are most central to understanding what the Scriptures reveal to us.

The purpose of the spring course is to deepen students' awareness of the mystery that is Jesus Christ, the living Word of God, and the Second Person of the Blessed Trinity. Students learn that Jesus Christ is the ultimate Revelation to us from God. Students consider many of the most fundamental doctrines of Christianity, including the Trinity, the nature of, its relationship to reason, and God's having created, redeemed, and sanctified the world. In learning about who Christ is, the students will also begin to ask who he calls them to be, and how authentic joy can be found in a life of faith.

121 THEOLOGY 2 - THE MISSION OF CHRIST

1 CREDIT

During the fall semester, students study redemption. They come to understand all that God has done for us through the work of Christ on earth. Students learn that from the first moment of creation, God planned for us to share in his divine life as children of God the Father, and brothers of the Son, united in the Holy Spirit. This adoption into God's very family and life is accomplished through the Redemption won by Christ for us during his life, passion, death, and resurrection. Students learn how we share in this redemption through Christ and also what it means to be a disciple of Jesus Christ, responding to his call in our lives.

In the spring, students learn that in and through the Church they encounter the living Jesus Christ. They will be introduced to Christ's founding the Church, its continuation through the Apostles and their successors, and its being sustained by Christ through the Holy Spirit even today. Students come to know that the Church is the living Body of Christ today, and that this Body has both divine and human elements. In this course, students learn about more than just the events in the life of the Church. They consider the sacred nature of the Church itself.

131 THEOLOGY 3 - SACRAMENTS & LIFE OF CHRIST

1 CREDIT

At the start of the year, students study the Sacraments. They come to understand that they can encounter Christ today in a full and real way in and through the sacraments, and especially through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ throughout life.

In their morality course, students come to know that it is only through Christ that they can fully live out God's plan for their life. Students learn the moral concepts and precepts that govern the lives of Christ's disciples. Some topics of interest include the fundamentals of moral living, free will, conscience, sin, grace, and many moral issues of interest to students.

Significant attention is also devoted to the study of the Catholic Social Tradition: what kind of society should we build to best defend the flourishing that God wants for each of his sons and daughters? Various specific issues are considered – discrimination, poverty, political oppression, war, human dignity, life issues, and so on – with a critical focus on the response of Catholic Christianity to the issues of today.

146 WORLD RELIGIONS

0.5 CREDIT

Open to Strake Jesuit juniors and seniors.

Vatican II's "Declaration on the Relation of the Church to Non-Christian Religions" stated, "there is found among various peoples a perception of that hidden power which hovers over the course of things and the events of history." Knowing that the Catholic Church "rejects nothing that is holy and true in these religions," we will examine the origins, beliefs, rituals, moral codes, etc. used by each tradition as they attempt to answer the "unsolved riddles of the human condition." The course includes several guest speakers from different faith traditions and a field trip to visit local houses of worship.

150 SCIENCE, HUMANS & THE EXISTENCE OF GOD**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

This course will examine what science has taught us about the nature of the universe, the nature of man, and what it all means to theology. The course will focus on modern conflicts between science and theology; if atoms follow predetermined laws of science, how can one claim to be free while being composed of atoms? If modern biochemistry can account for the origin of life, and physics -by way of the big bang- account for the origin of the universe, how can one believe in God? (seminar format).

152 BUSINESS AND FAITH IN THE 21ST CENTURY**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

This course examines the integration of faith and work within the Catholic social tradition. It also examines the social teachings of the Church as they affect the institutions and organizations in which people spend their lives. The first part of the course will introduce theological approaches to the integration of faith and work, including: the vocation of a business leader, Catholic Social Teaching on the economy and a virtue ethics approach to business ethics. The second part of the course will raise ethical issues in the workplace, including: equality and diversity in the workplace, marketing ethics, accounting ethics, anti-bribery and corruption, and sustainability.

153 SENIOR APOSTOLIC PROJECT**0.5 CREDIT**

Each senior at Strake Jesuit is required to complete 100 hours of community service in order to graduate. Senior projects have taken our students to soup kitchens, Native-American missions, summer camps for special-needs children, and many places locally, nationally and abroad. Students can begin earning Senior Service hours as early as Spring Break of their junior year. Senior Service Project must involve service to the poor. Excellent service projects can be created meeting the needs of the elderly, the disabled, the socially marginalized, etc. However, not all volunteer work (though worthy) is appropriate for Senior Apostolic Project. This class does not meet at a period during the day.

156 ELECTIONS, POLITICS, AND RELIGION**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

This course will look at upcoming elections and current political issues and explore how religious beliefs impact how we vote and who and what we support. It includes an exploration of the intellectual tools Catholics and others can utilize as they analyze candidates and make difficult decisions at the ballot box. We will examine contentious church-state issues here in America, as well as the various relationships between religion and government abroad. Numerous guest speakers come to discuss issues with the class. Past visitors have included local college professors, as well as speakers who have lived in China, Egypt, Iran, Israel, and elsewhere who shed light on the relationship between religion and politics in those nations, including religious persecution.

161 THE CATHOLIC WORLDVIEW OF J.R.R. TOLKIEN**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

This course will help the students to understand the life and worldview of author J.R.R. Tolkien, to appreciate the way in which Tolkien's worldview influenced his writings and the creation of Middle-earth, to comprehend of how their own worldview shape their work in the world, and to explore some of Tolkien's lesser known writings. *Students are expected to read J.R.R. Tolkien's The Hobbit or The Lord of the Rings before the start of the course in preparation for a reading test. (Viewing the movies by Peter Jackson are not a substitute for this expectation.)*

162 RELIGIOUS THEMES IN FICTION**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

This class will explore religious themes in short stories, novels, plays, poems, song lyrics, and movies. We will have the opportunity to explore more classic works of fiction, as well as the fictional realm of pop culture. We will look at the way authors have used their writing to examine themes such as: belief and unbelief; temptation, sin and forgiveness; grace and the sacredness of the world; suffering and death; redemption and salvation; the relationship between the Church and the world; and more.

167 SOCIAL JUSTICE**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

In some circles, the Catholic Church has a reputation for being less concerned with justice and social welfare than are some other Christian communities. This is surprising, given an enormous wealth of Catholic social doctrine that aligns with some of the common justice concerns facing our nation and our world right now. This Catholic Social Teaching has been called the Church's "best kept secret". After this course, students will know that secret. Some major topics: How do we defend human rights and dignity in the American "Culture of Death"? What is economic and political justice? Are Catholics "left," "right," or something else entirely? Why does marriage matter so much? What does it mean to say that God "prefers" the poor? How do we understand race, nationality, diversity, discrimination, prejudice, and power? What's a just wage? Are we really our brothers' keepers? Does the environment matter? Besides the theoretical and theological framework for these questions, the class depends on actual facts and real cases. There is vigorous debate, and the chance for real-life advocacy and other justice work.

168 THE BATTLE FOR HOLINESS: IGNATIAN AND CHRISTIAN SPIRITUALITY**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

This course examines the wealth of approaches to the spiritual life found in the Catholic tradition. It's central theme is the notion of spiritual combat as a means to holiness for the Christian and in the life of the Church.

Our course will have as its primary focus the life of St. Ignatius and his spiritual journey from a knight in the service of the Spanish King to a knight in service of Christ the king. We will examine some of his central writings, in particular, the Spiritual exercises, seeking to understand his spirituality under the notion of spiritual combat and spiritual warfare. After Ignatius, we will look at some of the spiritual writers that influenced his own spiritual life within the Church's tradition. These other spiritualities will be examined within the lens of Spiritual warfare and the universal call to holiness that we are all called to as Christians. Among potential Saints or works we will look at are: St. Teresa of Avila, The Imitation of Christ, Spiritual Warfare, St. John of the Cross, etc.

Students choosing this class should be open to spiritual conversation, reflection on and participation in the various approaches to spiritual growth in holiness studied in this course. This course will be heavily interactive and expect the students to participate in classroom discussion and reflection upon the spiritual topics discussed this semester.

169 C.S. LEWIS**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

Few 20th Century Christian writers are as recognized and admired as C. S. Lewis. Lewis' appeal arises from his wide-range of interests, wit, clarity and masterful skills at illustrating and simplifying complex topics. Acknowledged by many as one of the most outstanding apologists for Christian faith of modern times as well as one of the most appealing fiction writers, Lewis' appeal extends beyond denominational boundaries. After a survey of Lewis' biography and overview of his major works, this course will examine select texts from Mere Christianity, The Great Divorce, Screwtape Letters, The Problem of Pain, Miracles, The Lion, the Witch and the Wardrobe, as well as other works of interest to students.

170 INTRODUCTION TO SACRED SCRIPTURE**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors. Fall semester only.

Dual Credit with The University of St. Thomas. Course Fee: \$395, paid by the student to UST.

Introduction to contemporary biblical studies, including: 1) the Catholic approach to scripture in light of Dei Verbum (e.g., inspiration, revelation, canon, hermeneutical principles and methods of critical analysis, relationships of Old and New Testaments); 2) a survey of the Old Testament in its historical setting, with emphasis on major themes (e.g., covenant, exile, Davidic dynasty, wisdom literature, and messianic prophecies); and 3) a survey of the New Testament in its historical setting (e.g., Christianity's Jewish and Hellenistic roots, gospel formation, the gospels, Acts, Letters, Revelation).

Students will have the opportunity to dually-enroll with The University of St. Thomas for 3 hours of credit.

171 TEACHING OF THE CATHOLIC CHURCH**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors. Spring semester only.

Dual Credit with The University of St. Thomas. Course Fee: \$395, paid by the student to UST.

This seminar style course focuses on an advanced understanding of the fundamentals of Catholic dogmatic theology and the science of sacred doctrine as revealed in Scripture and Tradition and defined by the Magisterium of the Church. The class proceeds by reading theological texts and preparing argumentative defenses for and against the major tenets of the faith. Students should be eager readers and capable abstract thinkers to get the most out of this course. Class discussion is emphasized.

Students will have the opportunity to dually-enroll with The University of St. Thomas for 3 hours of credit.

173 PHILOSOPHY**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

Dual Credit with The University of St. Thomas. Course Fee: \$395, paid by the student to UST.

This course features a study of being, nature, knowledge, the

human person and the state, as developed by the pre-Socratics, Plato, Aristotle, the Epicureans, the Stoics and Plotinus. Special consideration is given to the philosophical foundations of science, ethics, and God's nature and existence. The course is designed to consider the power and limits of human reason as applied to the "great questions" as well as the relationship between philosophy and theology, especially within the Catholic tradition.

Students will have the opportunity to dually-enroll with The University of St. Thomas for 3 hours of credit (Ancient Philosophy, PHIL 1311).

174 CHRISTIAN APOLOGETICS: THE CASE FOR FAITH**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

This class is for all doubters, questioners, and seekers of truth. This class has the ambitious goal of wrestling with the ultimate question: does God exist? This class will also explore related questions of: What kind of god is he? Is it reasonable to have faith in this age of science? How can God exist in a world full of suffering? How could God be loving if people can go to hell? This class will further explore the particular case for Christianity: Why do we believe that this god can be identified with Christ? Ultimately why do we believe Christianity is the way to God?

175 SAINTS FROM SINNERS: OUR SPIRITUAL JOURNEY**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

The purpose of this course is to explore Christian spirituality, our universal call to holiness, and the Christian understanding of pilgrimage and vocation.

Students will come to understand the Church's tradition regarding spiritual growth and holiness. Secondly, students will study pilgrimage, its historical context, its purpose, and how one lives and prepares for a personal pilgrimage. During Spring Break for the 2019-2020 school year, students will be traveling to Rome to experience the life of a pilgrim in the center of the Catholic faith. Upon our return students will present on one or more aspects of the journey they encountered along the way and unpack the spiritual and physical highs and lows. Lastly, we will relate this experience to our universal call to holiness and how we can in our daily lives journey as pilgrims to sanctity.

Course Fee: \$2500 (includes airfare, transportation, and housing. Does not include meals).

176 THEOLOGY OF THE BODY**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

Pope Saint John Paul II delivered a series of 129 talks entitled Theology of the Body (TOB). The purpose of this course is to explore the Church's teaching on human sexuality as made in the image of God based upon this great teaching of the pope. This course will cover the topics of sex, love, and the human person as not just biological truths but theological as well.

ENGLISH

211 ENGLISH 1

1 CREDIT

Freshmen pursue an intensive study of grammar, composition, and the major genres of literature and begin a four-year cycle of vocabulary study. Students acquire a foundational knowledge of grammar, mechanics, and punctuation on which they will build increasingly sophisticated structures over the next three years. In literature units, students will cover the basics of close reading and literary analysis as they explore the elements of fiction and poetry. Through literature, they will examine themes related to Jesuit ethos. Freshmen study Robert Fagles's translation of Homer's *Odyssey*, a Shakespeare play, a translation of Sophocles' *Oedipus* (in the literature textbook), and other works of the teacher's choice. Overall, this crucial year introduces students to a model of critical reading and thinking and to the fundamentals of academic writing. Special emphasis is placed on relating the themes of great literature to the Grad at Grad values and our Ignatian mission.

221 ENGLISH 2

1 CREDIT

Sophomores study the development American Literature, focusing on authors' styles, themes, trends in genre, historical, and philosophical periods. Students read seminal texts of American literature such as *Adventures of Huckleberry Finn*, *The Great Gatsby*, *Their Eyes Were Watching God*, and other full-length works of the teacher's choice. Reading comprehension across various texts and period is a crucial skill developed in English 2. Students continue the vocabulary and grammar study begun freshman year and build upon their study and acquisition of writing skills. Writing is the significant component of English 2. Sophomores begin to sharpen their writing skills and learn to sustain an argumentative thesis through multi-paragraphed essays of increasing complexity and elegance. Using evidence, sentence style, and paragraph structure are core concepts for effective writing taught at this level. At the conclusion of English 2, students read with a greater appreciation for the author's purpose, ideas, and style; and they are more able to engage in discussion, inquiry, and speculation.

222 AC ENGLISH 2

1 CREDIT

Through in-depth readings, interactive discussions, and thoughtful writing, each student in AC English 2 will gain a greater understanding of the ways in which the written and spoken word reflect the American experience and the universal human condition. We will be reading many works across all genres that span American history and the cultural development of our nation. The primary question guiding our reading will be: what do the terms "America" and "American" mean in various contexts? Additionally, writing is the significant component of AC English 2. Sophomores begin to sharpen their writing skills and learn to sustain an effective argument through multi-paragraphed essays of increasing complexity and elegance. At the conclusion of AC English 2, students read with a greater appreciation for the author's purpose, ideas, and style; and they are more able to engage in discussion, inquiry, and speculation. AC English 2 students will be prepared for advanced English courses in their remaining two years of high school and beyond.

231 ENGLISH 3

1 CREDIT

Juniors survey the development of British Literature, becoming familiar with major British authors and their literary works within the context of history, philosophy, culture, and genre trends. The course emphasizes textual analysis, inquiry, and discussion. Juniors continue their study of writing fundamentals by advancing their skills in writing essays of literary analysis, interpretation, persuasion, argument, and comparison-contrast. Students continue their study of vocabulary.

232 AC ENGLISH 3

1 CREDIT

This course is a survey of British literature, its various forms and genres, and its prominent historical and literary movements. Using *The Norton Anthology of English Literature* (9th ed.), the AC student is expected to accomplish a familiarity with the various literary movements, their respective trends and philosophies, and their major works and authors, while honing his skills in critical reading, independent thinking, interpretation, and rhetoric. Additionally, this writing-intensive course encourages the student to achieve a sophisticated, argumentative, and eloquent writing style strongly rooted in textual evidence, in-depth literary analysis, and original commentary. Comprehensive vocabulary studies prepare students for PSAT and SAT. Most importantly, we endeavor to relate the themes of great literature to the Catholic and Ignatian ideals of our school.

233 AP ENGLISH LANGUAGE AND COMPOSITION

1 CREDIT

This course emulates a first-year college composition class, preparing students to "write effectively and confidently in their college courses across the curriculum and in their professional and personal lives" (College Board). Reading non-fiction

texts--newspaper editorials, travel writing, literary non-fiction, biography, sermons--and select works of fiction, students will learn to recognize and analyze the rhetorical devices and strategies that make arguments effective and persuasive. By writing formal essays, analyzing the arguments of others and by writing arguments of their own, students will learn how arguments work and how they are made. With frequent and demanding essay assignments, students will improve their mastery of English prose style and grow in their ability to produce “analytical and argumentative compositions that introduce a complex idea and develop it” through the use of evidence.

Students are expected to take the AP English Language and Composition Exam offered in May. There is a fee associated with the exam.

241 ENGLISH 4

1 CREDIT

In English 4 seniors continue to hone sentence-, paragraph-, and essay-level writing skills, using *Crafting Expository Argument* and *Writing with Style* as the main writing texts. The course assists young writers develop their own style, moving away from overly formal academic prose to language that is conversational and clean. Students continue their study of literature, reading mostly longer works thematically linked to the values of the Grad at Grad. Recent texts include those of Tolstoy, Dostoevsky, Homer, Voltaire, Shakespeare, McCarthy, and Dante. All vocabulary words derive from the literature we read.

243 AP ENGLISH LITERATURE AND COMPOSITION

1 CREDIT

In AP Literature and Composition you will learn to read like an artist-critic, studying texts not only for their development of themes and cultural ideas but also for their technical mastery and innovations. How do writers employ language to create texts that engage their cultural moment and literary history in rich, often ambiguous ways? Why is first-person the right choice in *A Farewell to Arms*? Why so many disease images in *Hamlet*? What makes Joyce's sentences so terribly beautiful? You will read literature from a variety of genres and periods, always with an eye to unlocking its deeper mysteries. To read well you will first unlearn bad habits. No longer will quick reading, that nervous skim before class, do. No. You will learn to read slowly, to savor each sentence, each line, each paragraph or stanza for its multiple meanings, its suggestions, its silences. In time, you will learn the wisdom of Nabokov's remark that you can only re-read a book. Your writing assignments will be frequent and varied, from one-page response essays due the day of a reading, to longer, more formal essays of evaluation and analysis, to expository and creative pieces. Always, you will learn to sharpen your thinking and hone your writing, to give both an edge gained only by rethinking and rewriting. You will have conferences with me before and after essays are due. You will edit each other's essays for argument and style. And you will revise, revise, revise. This class offers an intensive reading experience and a full-on writing workshop.

Students are expected to take the AP English Literature and Composition Exam offered in May. There is a fee associated with the exam.

257 HOW TO READ PLAYS...AND HOW TO WRITE ONE

0.5 CREDIT

Open to Stake Jesuit juniors and seniors.

Online Course at JVLA

Reading eight plays from Sophocles to Beckett, this class investigates how drama works and why we still read and watch plays. What, for instance, does a reader or a director do with that famous stage direction from Shakespeare's *The Winter's Tale*, “Exit, pursued by a bear”? Students will learn to think more broadly than just about drama, and will develop critical writing skills, forming arguments that think beyond the obvious and demonstrate a command of the text. Students will work throughout the semester on a capstone project: a short play of their creation to be handed in at the end of the semester. Those interested should expect to have one hour's worth of work each of six days out of the week including, but not limited to reading, viewing lectures, watching film adaptations of plays, writing essays, posting to a discussion board, and participating in e-meetings.

258 FILM AND LITERATURE

0.5 CREDIT

Open to Strake Jesuit juniors and seniors.

This course is an introduction to the relationship between cinematic and literary texts. Students explore the longstanding and ongoing connections between literature and film by studying a variety of cinematic and literary forms alongside related

genres, theories, and movements. To accomplish this, emphasis will be on viewing a number of films, learning film techniques and terminology, reading creative literature and nonfiction essays, writing critical analyses of both literature and film, and researching. By emphasizing similarities and differences between these art forms, this course seeks to foster a greater critical understanding and appreciation for all these forms and particularly to encourage more intellectual and critical “reading” of print and visual text.

668 GREEK & ROMAN MYTHOLOGY**0.5 CREDIT**

Open to Strake Jesuit and St. Agnes sophomores, juniors and seniors.

This course introduces the major mythological cycles of ancient Greece and Rome. Centered around primary sources (Homer, Hesiod, Aeschylus, Sophocles, Euripides, Virgil, Ovid, etc.) and classroom discussion, the course examines the ties between myth and religion, comparative approaches to mythology, myth as history, myth and literature, reception of the mythology in later Western tradition (especially the Catholic tradition), and other topics of interest.

781 YEARBOOK**0.5 CREDIT**

Open to Strake Jesuit sophomores, juniors and seniors.

This course concentrates on the production of the Crusader, the school yearbook. Students will identify, master, and practice skills necessary to conceptualize a theme for the yearbook, to articulate a complete and balanced yearbook coverage, to design the yearbook, to contribute to the publication’s financial success. This course meets during one of the 7 regular scheduled periods.

Offered during the Fall and Spring semesters. Each semester is 0.5 credit.

782 JOURNALISM**0.5 CREDIT**

Open to Strake Jesuit sophomores, juniors and seniors.

This course helps students to develop writing abilities appropriate to the successful completion of articles for print media, including newspapers, magazines, and blogs. Genres in which the students will write include news, features, opinion/editorial, reviews, and sports. This is a process-oriented courses in which students will hone skills for brainstorming topics, conducting interviews and research, composing articles, and copy editing. Students will be required to offer their articles for publication in Magis, our school newspaper. This course meets during one of the 7 regular scheduled periods.

Offered during the Fall and Spring semesters. Each semester is 0.5 credit.

FOREIGN LANGUAGE

311 LATIN 1

1 CREDIT

In Latin 1, the students will learn the fundamentals of Latin grammar. They will learn the active and passive voices of the verb, in all tenses, in the indicative mood. They will learn the functions of all the cases (except the locative) and the inflections for all declensions. They will learn the personal and relative pronouns as well as the major demonstrative pronouns/adjectives and three participles. They will be constantly enlarging their Latin vocabulary with words common in the literature of the Classical Age, and will use their knowledge of Latin prefixes, root words and suffixes to enlarge their English vocabulary. They will use their knowledge of grammar and vocabulary in translating Latin texts of increasing grammatical complexity. They will also learn of the major events, personalities and concepts of Roman history and culture in a cross-curriculum study of the Ancient World.

312 LATIN 2

1 CREDIT

After a thorough review of the grammar and vocabulary of Latin 1, the students in Latin 2 will finish learning the major points of Latin grammar. Foremost among those major points is the subjunctive mood: the students will learn the formation of the subjunctive in all tenses in the active and passive voices, and will learn the use of the subjunctive in purpose clauses, result clauses, indirect question, cum clauses, noun clauses, statements of volition and exhortation, and subordinate clauses in indirect statement. They will use their constantly growing Latin vocabulary and their knowledge of Latin grammar and syntax in translating texts of increasing complexity and authenticity. Such texts will include abridged and adapted stories from Ovid; after completing them, the students will read selections from Caesar's Gallic Wars during the spring semester. They will extend their knowledge of Roman history and culture through interpreting Latin texts and through a more formal treatment of Roman history, setting the stage for Latin 3.

313 LATIN 3

1 CREDIT

In Latin 3, students begin the first semester by reading selections from Book 1 of the Aeneid of Vergil. As we read, we discuss the mythological, cultural, and societal elements of Roman society and the reflection of Roman life in the work, as well as the lasting influence the story had on western literature. In the second half of the year, the course focuses on the Pro Caelio of Cicero and the politics and government of the late Republic while continuing to learn about Rome at large. Background material on the period and author of a selection is crucial to the study of literature. Also, English words with Latin roots are studied in connection with the Latin vocabulary lists. Students should develop an even greater appreciation of the impact the Latin language has had on history and culture.

316 AP LATIN

1 CREDIT

The AP Latin course is designed to prepare the student to successfully take the AP Latin (Caesar and Virgil) exam in May for the academic year. It involves translating and discussing selections from Virgil's Aeneid and Caesar's Commentaries on the Gallic Wars, with frequent announced and sight-translation-based tests. The specific syllabus is determined by the AP Testing Board prior to the start of each academic year.

Students are expected to take the AP Latin offered in May. There is a fee associated with the exam.

319 AC LATIN 4

1 CREDIT

In this course, students return to Vergil's Aeneid Book 6 in the first semester, combined a selection of historical topics from Suetonius' Life of the Twelve Caesars. Latin grammar will be reviewed on a regular basis, as well as mythology and Greco-Roman culture. English words with Latin roots will be studied in connection with the Latin vocabulary lists. In the second semester, students will transition to prose composition and translating English into Latin at an advanced level, paralleling its usage as a language of international communication through history. Special focus is given to rhetoric and precise, effective communication to help build the student's ability to write English prose and overall knowledge of linguistics and semantics.

321 FRENCH 1

1 CREDIT

The first two years of French are devoted to basic training in the language through immersion. Students achieve authentic learning through story-telling, gestures, active collaboration, and repetition. Students will systematically develop

vocabulary and basic grammatical structures through conversation. Emphasis is on speaking and understanding spoken French without neglect of reading and writing skills. Cultural lessons focus on understanding ways of life and customs of the francophone world.

322 FRENCH 2

1 CREDIT

The first two years of French are devoted to basic training in the language through immersion. Students achieve authentic learning through story-telling, gestures, active collaboration, and repetition. Students will systematically develop vocabulary and basic grammatical structures through conversation. Emphasis is on speaking and understanding spoken French without neglect of reading and writing skills. Cultural lessons focus on understanding ways of life and customs of the francophone world.

323 FRENCH 3

1 CREDIT

The third year of French is an intermediate level course devoted to reviewing, refining, and expanding listening, speaking, reading and writing competencies. Building on levels 1 and 2 students will read selected authentic texts such as newspaper and magazine articles, websites, and literary works. Grammar becomes more complex at this level and students will continue to learn new vocabulary pertinent to speaking topics and reading topics covered in class. Students will learn about the francophone world, history, and heritage.

326/327 AC FRENCH 4/5

1 CREDIT

Level 4/5 is taught in a two-year rotation with varying themes and materials each year. For this class, students must have a very strong mastery of basic grammar, sentence structure and verb tenses. They must show a genuine interest in continuing to learn French, including speaking French during all parts of the class. They should also be willing to explore French culture through authentic materials such as literature, film, music and art. This course is conducted only in French and students should be prepared to make presentations, write papers and do projects based on course material. Students wishing to take this course must have the approval of their current teacher.

Open to Strake Jesuit and St. Agnes students.

331 SPANISH 1

1 CREDIT

Spanish 1 is the basic level taught at Strake Jesuit and it follows the curriculum of Descubre 1. Extensive vocabulary, foundational grammar concepts, reading comprehension and conversation are stressed alongside the cultural aspects of learning Spanish.

332 SPANISH 2

1 CREDIT

Spanish 2 is the beginner-intermediate level taught at Strake Jesuit and it follows the curriculum of the first 5 lessons from Descubre 2. The use of the Spanish language throughout the class period intensifies grammar and vocabulary tasks supplement the spoken language in the classroom. Students at this level will master preterit vs. imperfect, the present subjunctive as well as the commands. They will also read a biography in Spanish of a famous baseball player as well as fables and short stories. Culture continues to be a part of the class as well.

339 AC SPANISH 2

1 CREDIT

AC Spanish 2 is the intermediate level taught at Strake Jesuit and it follows the curriculum of the entire Descubre 2 textbook. The student will master the preterit vs. imperfect, the present subjunctive, the commands, the future and conditional, and the perfect tenses. The use of Spanish is constant and students speak, write, listen and converse in the target language almost exclusively. Students write compositions such as legends and biographies, they read short stories as well as longer works (biographies, short novels, etc.) and view and discuss informational videos in the target language. The accelerated pace of this class will enable a student to successfully enter AC Spanish 3 the following year.

333 SPANISH 3

1 CREDIT

Spanish 3 is the intermediate level taught at Strake Jesuit for students following the regular track of the language curriculum. Since the course is designed as a continuation of Spanish 2, a thorough review of grammar and vocabulary is offered and the last 4 chapters of Descubre 2 are completed. All the language skills continue to be developed as well as the cultural aspects of the language. Discussion of movies, short stories and current events form part of the written and spoken skills practiced in this class.

330 AC SPANISH 3**1 CREDIT**

AC Spanish 3 is the intermediate-advanced level taught at Strake Jesuit and it follows the curriculum of the entire Descubre 3 textbook. The student will master the preterit vs. imperfect, the present and imperfect subjunctive, the commands, the future and conditional, and all the perfect tenses. The use of Spanish is constant and students speak, write, listen and converse in the target language almost exclusively. The class will present videos, movies as well as short stories and other short literary works as part of the cultural component of the class. The accelerated pace of this class will enable a student to successfully enter AP Spanish Language and Culture the following year.

334 SPANISH 4**1 CREDIT**

Spanish 4 is an intermediate-advanced level taught at Strake Jesuit following the curriculum of the Imagina textbook. The student will review the entire Spanish grammar in order to utilize it in readings, conversations, compositions and discussions of contemporary issues in the Spanish-speaking world.

Open to Strake Jesuit and St. Agnes students.

336 AP SPANISH LITERATURE AND CULTURE**1 CREDIT**

The AP Spanish Literature and Culture course is designed to introduce students to the formal study of a representative body of literature, written in Spanish, from Spain, Latin America and the United States. The course provides students with ongoing and varied opportunities to develop proficiency in Spanish across a full range of skills, with emphasis on critical reading and analytical writing. It also encourages students to reflect on the many voices and cultures included in a rich and diverse body of literature written in Spanish.

Students are expected to take the AP Spanish Literature & Culture exam in May. There is a fee associated with the exam.

Open to Strake Jesuit and St. Agnes students.

338 AP SPANISH LANGUAGE AND CULTURE**1 CREDIT**

The AP Spanish Language and Culture prepares the student thoroughly to take the exam in May by following the topics in the Temas textbook. Students will read, discuss, write, converse, present and listen to various authentic texts and audio pieces in order to prepare for the AP exam. Grammar is a tool to facilitate expression and is not the focal point of the class anymore. Students learn about various issues affecting the Spanish-speaking world and wrestle with them in the target language.

Students are expected to take the AP Spanish Language and Culture exam in May. There is a fee associated with the exam.

Open to Strake Jesuit and St. Agnes students.

351 MANDARIN 1**1 CREDIT**

This is a course designed for a complete beginner. Students who are already fluent or who speak Mandarin should be encouraged to take a different language. In the first year, students will become familiar with a totally different written language; Mandarin does not have an alphabet but characters. Mandarin is a tonal language with four tones. Particular attention will be placed on correct pronunciation.

Open to Strake Jesuit and St. Agnes students.

352 MANDARIN 2**1 CREDIT**

Students in Mandarin 2 will continue to develop his/her knowledge of written (characters and pinyin) and spoken Chinese. This course combines vocabulary and culture necessary for a student to write short paragraphs, and respond in a more fluent dialogue setting. Culture will continue to shape the Mandarin 2 syllabus with emphasis on geography, history and philosophy.

Open to Strake Jesuit and St. Agnes students.

353 MANDARIN 3**1 CREDIT**

Students in Mandarin 3 will continue to develop his/her knowledge of written (characters and pinyin) and spoken Chinese, working in the four skills, reading, writing, listening and speaking. Students will read selected authentic texts such as newspaper articles and literary works. Sentence patterns become more complex at this level and vocabulary more varied, so that students will develop skills to write a long paragraph, and respond in a more fluent dialogue setting. Culture will continue to shape the Mandarin 3 syllabus allowing for personal interests in philosophy, geography, history and current affairs.

Open to Strake Jesuit and St. Agnes students.

355 AP CHINESE LANGUAGE AND CULTURE**1 CREDIT**

The AP Chinese Language and Culture course exposes students to an in depth study of contemporary Chinese society. The course provides ongoing and varied opportunities to develop a full range of communication skills, with emphasis on critical thinking and analytical writing. To reach that goal, students will learn common Chinese idioms, read media on line, and write organized essays on topics related to personal experience. Finally, they will debate ideas and report on cultural readings on many aspects of contemporary Chinese life and relationships, while also sharing their views on the visual and performance arts.

Students are expected to take the AP Chinese Language and Culture exam in May. There is a fee associated with the exam.

Open to Strake Jesuit and St. Agnes students.

MATHEMATICS

411 ALGEBRA 1

1 CREDIT

This course examines the basic structure of real numbers, algebraic expressions, and functions. The topics studied are linear equations, inequalities, functions and systems, quadratic equations and functions, polynomial expressions, data analysis, probability, and the elementary properties of functions. Mathematical modeling of real-life problems and problem solving are major themes of the course.

413 GEOMETRY/TRIGONOMETRY (FRESHMAN)

1 CREDIT

This course introduces students to the fundamental concepts and uses of geometry. Students learn to work with basic building blocks of geometry, geometric notation, various two dimensional shapes, transformations, traditional three dimensional shapes, right triangle trigonometry and applying trigonometric laws to non-right triangles. Students also learn the basics for logical arguments and proofs of conjectures. The course emphasizes applications of geometry; the course is based in theory.

421 GEOMETRY/TRIGONOMETRY (SOPHOMORE)

1 CREDIT

This course introduces students to the fundamental concepts and uses of geometry. Students learn to work with basic building blocks of geometry, geometric notation, various two dimensional shapes, transformations, traditional three dimensional shapes, right triangle trigonometry and applying trigonometric laws to non-right triangles. Students also learn the basics for logical arguments and proofs of conjectures. The course emphasizes applications of geometry; the course is based in theory.

422 AC GEOMETRY/TRIGONOMETRY (SOPHOMORE)

1 CREDIT

This course is an accelerated and fast-paced version of the regular Geometry class. This course emphasizes proofs and theory with applications. All conjectures are logically and rigorously proved by the students, and the students develop a deeper appreciation for the role of proof in mathematics.

431 ALGEBRA 2/TRIGONOMETRY

1 CREDIT

This course builds on the skills learned in Algebra 1 and leads into conceptual understanding of linear and quadratic functions and their uses, expands upon polynomial functions, and introduces students to and focuses on exponential, logarithmic, rational and trigonometric functions as preparation for pre-calculus or calculus. Students also work with the algebraic representations of conic sections, and basic sequences and series of numbers.

432 AC ALGEBRA 2/TRIGONOMETRY

1 CREDIT

This course is an accelerated version of the regular Algebra 2/Trigonometry class, and emphasizes a deeper understanding of the various functions studied in a regular course. The problem sets extend to higher level thinking and problem solving, and quizzes and tests are more challenging. Additional topics such as: introduction to vectors, and matrices and determinants, may also be discussed in brief for this course.

433 PRE-CALCULUS (JUNIOR)

1 CREDIT

This course explores the properties of the functions necessary for higher mathematics: polynomials, rational functions, exponential and logarithmic functions, trigonometric functions, sequences and series, and inverse functions in greater detail. Additionally, the course will introduce the students to the uses of matrices, vectors, combinatorics, probability, and basic statistics and to an intuitive understating of limits including the limit definition of the derivative. This course is intended to prepare students for AP or non-AP calculus senior year.

434 AC PRE-CALCULUS

1 CREDIT

This course is an honors pre-calculus course primarily intended for juniors who have taken AC Algebra 2. The course explores polynomial, rational, root, logarithmic, exponential, and trigonometric functions in greater detail. Students will also be introduced to different coordinate systems and to the ideas of limits as a preparation for calculus.

The intention of this course is to prepare students for AP Calculus AB or BC. Seniors may not enroll in this course.

441 PRE-CALCULUS (SENIOR)**1 CREDIT**

This course strives to strengthen students' algebraic skills using real-world applications. Topics addressed are polynomials, rational functions, exponential and logarithmic functions, trigonometric functions, and inverse functions. Additionally, the course will introduce students to the uses of combinatorics, probability, and basic statistics. *This course is recommended for those seniors who do not expect to enroll in a math-intensive major in college.*

442 AP CALCULUS AB**1 CREDIT**

In this course, students will work to develop an intuitive understanding of the concepts of Calculus, and will gain experience with its methods and applications. The content of this course is designed to mirror that of a one semester college calculus course, and the course will follow the guidelines set forth by the College Board for AP Calculus AB. All students taking this course must have a graphing calculator; a TI-84+ is strongly preferred. A TI-Nspire is not recommended.

Students are expected to take the AP Calculus AB exam in May. There is a fee associated with the exam.

443 CALCULUS**1 CREDIT**

Calculus students will work to develop an intuitive understanding of the concepts of Calculus, and will gain experience with its methods and applications. Students admitted to this course must have demonstrated mastery of algebra, geometry, coordinate geometry and trigonometry in addition to elementary functions. These functions include algebraic, trigonometric, exponential and logarithmic functions and their inverses. *This course is recommended for those seniors who expect to take calculus in college.*

445 AP CALCULUS BC**1 CREDIT**

In this course, students will work to develop an intuitive understanding of the concepts of Calculus, and will gain experience with its methods and applications. The content of this course is designed to mirror that of a two semester college calculus sequence, and the course will follow the guidelines set forth by the College Board for AP Calculus BC. All students taking this course must have a graphing calculator; a TI-84+ is strongly preferred. A TI-Nspire is not recommended.

Students are expected to take the AP Calculus BC exam in May. There is a fee associated with the exam.

446 AP STATISTICS**1 CREDIT**

AP Statistics is a year-long, introductory college course in which students will explore data, extrapolate and interpolate, plan studies, and infer statistical conclusions based on quantitative evidence. Students will design, administer, and tabulate results from surveys and experiments. Probability and simulations aid students in constructing models for chance behavior. Sampling distributions provide the logical structure for confidence intervals and hypothesis tests. To develop effective statistical communication skills, students are required to prepare frequent written and oral analyses of real data. All students taking this course must have a graphing calculator; a TI-84+ is strongly preferred. A TI-Nspire is not recommended.

Students are expected to take the AP Statistics exam in May. There is a fee associated with the exam.

Prerequisites: Completion of Algebra 2 or concurrent enrollment in AC Algebra 2

447 AC MULTI-VARIABLE CALCULUS**1 CREDIT**

Online Course at JVLA

Students taking this course will study the fundamental theorems and applications of multivariable calculus. This course will extend the calculus of one-dimension, which is studied in the AP Calculus BC course, to Euclidean spaces of arbitrary dimension. The course will begin with a careful consideration of vectors in R^n . From there, we will consider the theory of partial derivatives and vector fields. Multiple Riemann integrals will then be considered as well as certain of their applications. Time permitting, the course will conclude with a careful look at the important theorems of vector calculus – namely, the theorems of Green, Gauss, and Stokes. Where applicable, concepts will be presented in full generality. In particular, a nontrivial amount of real analysis and point-set topology will be studied to facilitate studying certain of the multivariable calculus concepts. However, it is hoped that this increased sophistication will allow students to see more clearly how multivariable calculus is a beautiful generalization of the single-variable calculus. Moreover, throughout the

course, the instructor will attempt to show students where the abstract mathematics can be applied.

Prerequisite: AP Calculus BC

SCIENCE

511 BIOLOGY **1 CREDIT**

The Biology 1 course is required of all freshman students and provides an introduction to fundamental principles of biological science emphasizing the unity and diversity of all forms of life. The curriculum emphasizes the molecular basis for cellular structure and function, genetics, and a survey of selected phyla. Laboratory activities provide reinforcement for classroom concepts. Instruction will include current findings in biology, particularly in genetics.

521 CHEMISTRY 1 **1 CREDIT**

The Chemistry 1 course provides an introduction to the fundamental principles of chemistry including atomic structure, properties of gases, liquids, and solids, types of chemical reactions, stoichiometry, and properties of solutions. Laboratories introduce students to basic chemistry lab safety, observation of chemical reactions and the ability to draw conclusions from observations.

522 AC CHEMISTRY 1 **1 CREDIT**

AC Chemistry 1 focuses on the study of quantitative and qualitative study of matter and its changes, while introducing higher level thinking and problem solving skills. Emphasis is placed on atomic theories, nomenclature, reactions, stoichiometry, gas laws, solutions, periodic trends, kinetics and equilibrium. Compared to Chemistry 1, this course moves at a faster pace, with strong significance placed on utilizing algebra tools for problem-solving and requires additional independent work. Laboratories introduce students to basic chemistry lab safety, observation of chemical reactions and the ability to draw conclusions from observations.

540 CONCEPTUAL PHYSICS **1 CREDIT**

Physics is the study of how the universe works and is fundamental to civilization as we know it. This course emphasizes a basic understanding of the laws of physics as we know them today and how they may be applied to solve problems. Conceptual Physics is less mathematically rigorous than Physics 1 and the emphasis is as much on qualitative understanding as quantitative problem solving.

Prerequisites: Chemistry 1, Geometry

541 PHYSICS **1 CREDIT**

This is an applied physics course that includes mechanics and selected topics from the following: astronomy, elasticity, simple harmonic motion, waves, heat, optics, electricity, and magnetism. Problem solving techniques are emphasized. This course is strongly recommended for students considering a career in medicine, architecture, engineering, mathematics, or science.

Prerequisites: Chemistry 1, Algebra 2/Trigonometry

544 ANATOMY & PHYSIOLOGY **1 CREDIT**

Open to Strake Jesuit and St. Agnes juniors and seniors.

This course studies the anatomy (structure) and physiology (function) of the different systems found in the human body, for example, digestive, cardiovascular, etc. Lectures are accompanied by a rigorous laboratory schedule designed to enhance the student's understanding of the class topics. This course includes an animal dissection and at least three formal laboratory reports.

Prerequisites: Biology 1, Chemistry 1

547 AP CHEMISTRY 2 **1 CREDIT**

This accelerated second year course in chemistry covers all topics recommended by the College Board in order to successfully take the AP test in Chemistry in May. Topics include kinetics, thermodynamics, equilibrium, quantum theory, electrochemistry and additional work on atomic structure. Course meets each day plus one lunch period per week for

extended laboratory time. Laboratories include quantitative chemistry exercises and inquiry based labs with a focus on detailed observations and analysis of data. Written laboratory reports are required.

Students are expected to take the AP Chemistry exam in May. There is a fee associated with the exam.

Prerequisites: Biology 1, Chemistry 1

549 AP BIOLOGY 2

1 CREDIT

This accelerated course in Biology covers all the topics recommended by the College Board in order to successfully take the AP test in Biology. Topics include: cell functions, biochemistry, metabolism, genetics, ecology, plant biology, and biological laboratory techniques, etc. Course meets each day plus two lunch periods per cycle for extended laboratory time.

Students are expected to take the AP Biology exam in May. There is a fee associated with the exam.

Prerequisites: Biology 1, Chemistry 1

550 OCEANOGRAPHY & LIMNOLOGY

1 CREDIT

Open to Strake Jesuit and St. Agnes juniors and seniors.

In this course, students will investigate a variety of topics that include: components of an aquatic ecosystem; relationships among aquatic habitats and ecosystems; roles of cycles within an aquatic environment; adaptations of aquatic organisms; changes within aquatic environments; geological phenomena and fluid dynamics effects; and origin and use of water in a watershed. First semester covers marine and freshwater ecology and the second semester covers plate tectonics, seafloor bathymetry and sedimentology, ocean waves, tides and currents.

Prerequisites: Biology 1, Chemistry 1

553 AP PHYSICS C

1 CREDIT

AP Physics C is composed of two major topical groups, Mechanics and Electricity & Magnetism. The electricity & magnetism component of this course focuses on knowledge and application of five major topics: electrostatics, conductors & capacitors, electric circuits, magnetic fields and electromagnetism. The mechanics portion of AP Physics C encompasses instruction in each of the following seven major areas: 1D- and 2D-kinematics, Newton's laws of motion; systems of particles and linear momentum; energy, circular motion and rotation; gravitation and oscillation. This course should be parallel to or preceded by a calculus-based mathematics course and major emphasis is placed on using physical principles to develop problem-solving skills.

Students are expected to take the AP Physics C exam in May. There is a fee associated with the exam.

Prerequisite: Physics 1 or AP Physics 1

Corequisites: AP Calculus AB or AP Calculus BC

554 ENGINEERING DESIGN AND ANALYSIS

1 CREDIT

Dual credit with The University of Texas

Open to Strake Jesuit juniors and seniors.

This course engages students in authentic engineering practices and to embrace an engineer's habits of mind. The basis of this course will be collaborative, student-directed projects empowering students to think like engineers, to adopt engineering processes, and to pursue engineering disciplines for the betterment of our world. Students will reverse engineer a consumer product to think about how someone else designed it – and how they could do it better. Students will learn how to collaboratively collect, analyze, represent, and argue using data to make better engineering decisions. Once students know how engineers design and how to make data-driven decisions, they are ready to apply these abilities, along with basic coding skills, to design more complex solutions in a systems engineering capstone challenge.

Students will have the opportunity to dually-enroll with The University of Texas for 3 hours of freshman level engineering credit (ES 301).

Course Fee: \$300.00 paid by the student to UT

555 ASTRONOMY

1 CREDIT

Online Course at JVLA

Open to Strake Jesuit juniors and seniors.

At some point in our lives, each of us has gazed at the night sky in awe of its sheer magnitude. While we have learned much about our planet and its relationship to other celestial bodies, in many ways, the cosmos is the last great frontier. But how did it come to be? How large is it? How much do we know about the universe versus what remains to be discovered? This course provides an introduction to the solar system, stars, the interstellar medium, the galaxy, and the universe. It is also designed to force students to think like scientists – separating fact from theory, studying relationships between objects in search of patterns, and more. Please note that Astronomic principles are grounded in Physics (which is largely grounded in Mathematics). Though students need not have studied Physics previously, they should be prepared to work within this discipline.

556 AP PHYSICS 1

1 CREDIT

AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power, mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills.

Students are expected to take the AP Physics 1 exam in May. There is a fee associated with the exam.

Prerequisites: Chemistry 1; AC Algebra 2 may be take **concurrently** with AP Physics 1, for students with a strong mathematical background.

557 AP ENVIRONMENTAL SCIENCE

1 CREDIT

This class is designed to meet the goals of a typical one-semester, introductory college course in environmental science, which covers a wide variety of disciplines (geology, biology, environmental studies, environmental science, chemistry, geography, etc). The students in this class will complete the inquiry-based approach laboratory investigations required by the College Board, as well as to carry out the analysis portion of these labs as well as the data collection. Twenty five percent of the student's time in this class will be devoted to student-directed investigation laboratory work. Course meets each day plus *six lunch periods per semester* for extended laboratory time.

Students are expected to take the AP Environment test offered by the College Board in May. There is a fee associated with the exam.

Prerequisites: Biology 1, Chemistry 1

559 ENGINEERING GRAPHICS

0.5 CREDIT

Open to sophomores, juniors, and seniors.

Students in this 1 semester course will learn the skill of effectively communicating engineering designs. Students will begin the semester discussing the importance and necessity for engineering drawings and how they differ from other kinds of drawings. Next students will learn to read and create orthographic sketches (effectively blue prints) by hand. This will culminate in drawing 3-D sketches. The last two-thirds of the semester will focus on mastering professional-grade CAD (computer-aided design) software called Solidworks. Students will learn how to create a wide variety of parts and assemblies in Solidworks. By the end of the course, students will be capable of creating the vast majority of possible parts. Students will then use these skills to design and model a cell phone case, with the possibility of using that model to create a 3D printed part.

560 UNDERWATER ROBOTICS**0.5 CREDIT**

Open to sophomores (if Engineering Graphics or CS or Engineers is taken in the Fall), juniors and seniors.

Spring semester only

Students in this class will engage in the engineering design process through designing, building, and testing an underwater ROV (Remotely Operated Vehicle). Each team of students will form into a 'company' that will respond to the published yearly competition guidelines and create a 'product,' their ROV. The winning SJ company will then compete in the regional MATE (Marine Advanced Technology Education) competition with the possibility of moving on to the yearly international competition. To successfully complete their ROV, students will need to master the concepts of buoyancy, creating a circuit using a soldering iron, hydraulics, and many more. More successful 'companies' will need to incorporate knowledge from other classes such as programming and CAD. At the end of the semester, instead of a final exam, the company will demonstrate their ROV 'product' to judges, as well as creating a technical report, presentation, and marketing display. Thus, students will learn the process of responding to a request for proposal such as in a company from the beginning with design and research, to end with demonstrations, presentations, and documentation.

Prerequisites: Students in this class must meet one of the following requirements: Physics (can be concurrent), any kind of programming class, Engineering Graphics (can be concurrent), or Engineering Design and Analysis (can be concurrent)

SOCIAL STUDIES

613 WORLD HISTORY

1 CREDIT

Freshmen World History is an introduction to the study of Man and Earth, focusing on the life of early man, his development, and the changes that led to the creation of modern civilizations.

614 AP WORLD HISTORY

1 CREDIT

AP World History is a course designed to focus attention on the “big” picture within manageable groupings of time. It provides the student with the opportunity to discern various patterns as expressed via mankind’s social, political, and economic interactions, and how the ‘worldview’ is expressed through art, architecture, religion, and the ever expanding realm of technological innovations. Based on a global perspective of the world, this course will concentrate on the interactions amongst people—and between peoples—from ca. 8000 BCE to the present, and will allow for description and analysis of the impact of these encounters. Following the chronological framework of periodization provided by AP Central, this course will emphasize the five overarching AP World History themes. Such an approach will provide the student opportunities—via both primary and secondary sources—to develop a greater understanding of the broad patterns and processes that explain change and continuity over time.

Students are expected to take the AP World History exam in May. There is a fee associated with the exam.

621 U.S. HISTORY

1 CREDIT

The sophomore year social studies course is US History. The course is a survey of our heritage beginning with the discovery of America and finally arriving at the present. It will help students understand how and why America developed as it did and where the nation has arrived after more than three centuries of growth and two centuries of nationhood.

622 AP U.S. HISTORY

1 CREDIT

This course is designed for the more motivated and talented student who is interested in pursuing an in- depth study of American History within the context of an Advanced Placement curriculum with the ultimate goal of taking the College Board Advanced Placement U.S. History Exam in May. Besides motivation, the student must have strong reading comprehension and writing skills and be willing to work. While the subject matter covered is the same as regular American History, the text is more advanced and the course moves at a higher pace. This course emphasizes the development and refinement of powers of analysis, synthesis and expression, both written and oral; consequently, the standard of student performance, in terms of depth, insight, and level of sophistication, is higher.

All students are expected to take the AP US History exam in May.

657 INTRODUCTION TO LAW

0.5 CREDIT

Class is held at St. Agnes

Open to Strake Jesuit and St. Agnes juniors and seniors.

This course is recommended for students who plan to major in business in college as well as any student who wants to be aware of her individual legal rights. The course takes an in-depth look at the subjects of crimes, torts, the judicial system, contracts, and other law-related topics. Students participate in a moot and mock trial, study and present legal cases; and have the opportunity to meet and work with legal professionals in the community.

670 AP MICROECONOMICS

0.5 CREDIT

Open to Strake Jesuit juniors and seniors.

AP Microeconomics is an Advanced Placement Economics course designed to give you a thorough understanding of microeconomics, how people make decisions and how those decisions interact. Through class lectures, in-class exercises, and outside readings, this course will cover basic economic concepts, the nature and functions of product markets, factor markets, market failure, and the role of the government (please see *Course Layout* for a more complete distribution of

topics).

Students are expected to take the AP Microeconomics exam in May. There is a fee associated with the exam.

671 AP MACROECONOMICS

0.5 CREDIT

Open to Strake Jesuit juniors and seniors.

AP Macroeconomics is an Advanced Placement Economics course designed to give you a thorough understanding of macroeconomics, the overall health of an economy. Through class lectures, in-class exercises, and outside readings, this course will cover basic economic concepts, the measurement of economic performance, national income and price determination, the financial sector, inflation, unemployment, stabilization policies, economics growth, and the open economy on the international scale.

Students are expected to take the AP Macroeconomics exam in May. There is a fee associated with the exam.

672 POLITICAL VIOLENCE & TERRORISM

0.5 CREDIT

Open to Strake Jesuit juniors and seniors.

This course is an introduction to the issues of modern terrorism and how they are handled by the state. The course focuses on several distinct areas, including defining terrorism, how terrorism has evolved, why modern groups use terroristic measures and how the state responds to terrorism. The course will also focus on the state's use of violence for political means and how it affects society.

675 US GOVERNMENT & POLITICS

0.5 CREDIT

This course introduces students to the political philosophy and practices of the world's oldest democracy. Additionally, students critically examine the major institutions of American political and economic life.

676 AP US GOVERNMENT & POLITICS

0.5 CREDIT

This course is the equivalent of an introductory college-level course. Students explore the operations and structure of the U.S. government and the behavior of the electorate and politicians. Students gain the analytic perspective necessary to evaluate political data, hypotheses, concepts, opinions, and processes and learn how to gather data about political behavior and develop their own theoretical analysis of American politics. Students also build the skills they need to examine general propositions about government and politics, and to analyze specific relationships between political, social, and economic institutions. Students prepare for the AP Exam and for further study in political science, law, education, business, and history.

Students are expected to take the AP Government & Politics exam in May. There is a fee associated with the exam.

677 ECONOMICS

0.5 CREDIT

The focus of this course is on the basic principles concerning production, consumption, and distribution of goods and services (the problem of scarcity) in the United States and a comparison with those in other countries around the world. Students analyze the interaction of supply, demand, and price. Students will investigate the concepts of specialization and international trade, economic growth, key economic measurements, and monetary and fiscal policy. Students will study the roles of the Federal Reserve System and other financial institutions, government, and businesses in a free enterprise system. Types of business ownership and market structures are discussed. The course also incorporates instruction in personal financial literacy.

678 INTRODUCTION TO CRIMINAL JUSTICE

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors.

This semester course will give students a glimpse into the proceedings of various sectors of the American criminal justice system. Items that will be focused on throughout the semester include: measuring and explaining crime; criminal law; police and the rule of law; challenges to effective policing; the criminal trial process; punishment and sentencing; probation and community corrections; prisons and jails; victims' rights; and media sensationalism of crime. This course will provide students with an opportunity to better understand America's law enforcement procedures, our court system, and our penal

system, in addition to possibly opening doors to occupational opportunities (or answering questions you might have if you have already considered a criminal justice-oriented occupation).

679 AMERICA AT WAR**0.5 CREDIT**

Open to Strake Jesuit juniors, and seniors.

America at War leads students through a study of America's unique military history and explore its impact on American society and global relations. An in-depth study of the American Revolution, War of 1812, the Mexican War, the Civil War, the Spanish American War, World War I, World War II, Korean War, the Vietnam Conflict, Desert Storm, Iraq, and the War on Terror will provide context as students gain an understanding of the cultural, technological, and political changes brought about by warfare.

680 CONTEMPORARY SOCIAL & POLITICAL ISSUES**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

This is a one semester course which explores present controversies being discussed in the news. The course topics are driven by what is being debated in the papers, on social media, and online as the course proceeds. We will choose topics for consideration in the upcoming week on the Thursday of the preceding week. We will spend each week looking at the political, social, cultural and economic context of the chosen issue. We may carry an issue over or repeat it if it seems warranted by the issue's complexity or by unfolding events.

681 SPORT AND CULTURE**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

This course will examine the relationship between world cultures and sports throughout history. We will discuss how the problems that challenge modern society are often reflected in the world of athletics, on and off the sports field. We will analyze issues related to gender, race, politics, corruption, drugs and poverty as they pertain to international sports at all levels of athletic competition. The Olympic movement, for example, was once the standard bearer for amateur sports but has struggled to keep pace with a changing world. We will explore the impact sports have had on historical events as well as their overall role within modern society today.

682 AP COMPARATIVE GOVERNMENT**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

The AP course in Comparative Government and Politics introduces students to the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. In addition to covering the major concepts that are used to organize and interpret what we know about political phenomena and relationships, the course will cover specific countries and their governments, especially China, Great Britain, Iran, Mexico, Nigeria, and Russia.

Students are expected to take the AP Comparative Government exam in May. There is a fee associated with the exam.

683 PERSONAL FINANCE**0.5 CREDIT**

Open to Strake Jesuit sophomores, juniors and seniors.

The purpose of this course is to empower students with knowledge and application of basic financial principles; so that they can make sound financial decisions for life. The student will focus on consumer practices and responsibilities, the money management process, decision-making skills, impact of technology, and enhancing financial literacy skills. The course will foster an understanding and appreciation of ethical money management.

685 US AND LATIN AMERICAN RELATIONS**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

This one-semester Social Studies elective is a survey of relations between the United States and Latin America from the late

18th century to the present. The course will examine the dynamics of the relationship within a conceptual framework that looks at economic, strategic, political, and ideological factors. Themes and issues to be examined include: U.S. interventionism in the region, regional trade, nationalism, dictatorship & democracy, revolutionary change, hemispheric solidarity and security issues, human rights, and immigration.

686 HISTORY OF PIRACY & SMUGGLING**0.5 CREDIT**

Open to Strake Jesuit juniors and seniors.

This course examines the history of global piracy and smuggling from antiquity to the current day. The course will look into factors that created piracy from the South China Sea to the Caribbean, cultural history of pirates, their tools and the effects of piracy and smuggling on the state and its response.

687 AP PSYCHOLOGY**1 CREDIT**

Open to Strake Jesuit juniors and seniors.

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.

Students are expected to take the AP Psychology exam in May. There is a fee associated with the exam.

688 AP EUROPEAN HISTORY**1 CREDIT**

Open to Strake Jesuit juniors and seniors.

AP European History is designed to be the equivalent of a two-semester introductory college or university European history course. In AP European History students investigate significant events, individuals, developments, and processes in four historical periods from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and national and European identity.

Students are expected to take the AP European History exam in May. There is a fee associated with the exam.

689 AP HUMAN GEOGRAPHY**1 CREDIT**

Open to Strake Jesuit juniors and seniors.

AP Human Geography is a college-level course designed to help better understand the relationship between people and the world. Students will explore development, the relationship of people and place, and how it changes over time. Topics of study include population and migration, culture, political geography, agriculture and rural land use, economic development, and cities and urban land use. Students will learn how to analyze maps, satellite imagery, geographic information systems, and other data sources. Ultimately, this course will change the way in which students see and understand the world around them.

Students are expected to take the AP Human Geography exam in May. There is a fee associated with the exam.

690 AP SEMINAR**1 CREDIT**

Open to Strake Jesuit juniors.

This is the first course in the innovative AP Capstone diploma program.

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of

academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

Students are expected to take the AP Seminar exam in May. There is a fee associated with the exam.

691 ANCIENT WORLD HISTORY

0.5 CREDIT

Open to sophomores, juniors, and seniors.

This one semester course will look at the key historical figures of ancient history, focusing on how various personalities were able to rise to the forefront and leave a giant imprint on man's past. Beginning with the river valley worlds of Mesopotamia and Egypt, we will look at key figures of their time, placing emphasis on: how they thought and how they fought; what did they consider sacred, what was taboo; how did they get the gods on their side. And of course, no study of the ancient past would be complete without a focus on the Roman Empire. Assessment will come by quizzes and tests, student presentations, and a project at the end of the semester.

FINE ARTS

THEATER COURSES

720 THEATER 1

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors.

The Theater 1 class will serve as a survey class of theater arts. Students will gain a working knowledge of theatrical performance on stage as well as back-stage. Students will participate in class performances, scripted and improvisational. Students will learn and utilize basic stage craft skills. They will acquire basic knowledge of theatrical lighting and sound. The class will conduct basic script analysis in written work and other class projects. Students will learn the roles of the varied theatrical professionals with regard to the design and production process. Students are required to attend at least one outside production a semester. In addition, students will be required 10 hours of work outside class towards performance/set construction/crew.

721 THEATER 2

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors.

The Theater 2 class will build on the prerequisite Theater 1 survey class. Student performance will continue with improvisation, monologues, scenes, and sonnets. Students will work towards their own production of theater. The class will present at least one lunch and/or after school performance each semester. Students or student teams will complete a design project with a published script. Projects will address staging, costumes, set, lights, scheduling, etc. In addition, students will be required 10 hours of work outside class towards performance/set construction/crew.

Prerequisite: Theater 1

734 DRAMATIC PERFORMANCE

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors and St. Agnes students.

This course will train students in several areas of acting, directing and writing for theater. It will help students understand and appreciate different performance and acting techniques as well as master all basic dramatic performance skills. It will also introduce students to the drama production process and to the techniques needed for theater writing. The class will require numerous activities involving public performances and participation at evening and weekend theatrical events. All major grades are project oriented and may include several acting performances, development of competition level interpretation pieces, participation in weekend dramatic competitions, a researched essay, composition of a short scene, and a public performance in the theater. An understanding of the historical place of theater in social structures will be emphasized.

738 DRAMATIC PERFORMANCE 2

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors and St. Agnes students.

This course takes an in-depth examination of the role of the actor in determining the message of a character and the effective means of conveying that message to the audience and to other characters. The class continues work on vocal technique, voice and diction, and oral interpretation. Focus is placed on the effective tools of communication at the disposal of the performer. Elements of improvisation and acting techniques with emphasis on character, motivation, and sub-text will be reviewed.

Prerequisite: Dramatics Performance 1

735 TECHNICAL THEATER

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors and St. Agnes students.

This class is designed for students who want to work with stage lighting and sound. Theater safety, set construction, use of lights in theater, proper setting of lights, development of sound cues, proper use of sound equipment and theater

maintenance is covered in the course. The course requires participation in at least one production during the semester.

736 INTRODUCTION TO ACTING

0.5 CREDIT

Class is held at St. Agnes

Open to Strake Jesuit sophomores, juniors and seniors and St. Agnes students.

This is a class for the beginning actor, or for the student who has had some acting or stage experience. This class is driven by participation and the student will be graded on their improvement from beginning to end. The student will receive a condensed version of Theater and Acting History; Drama Terms & Lingo; while also learning about the techniques of acting and how to improve on them, thereby gaining more experience on stage and in front of an audience. Each student will perform monologs and be part of a short scene with dialog. Students learn by critiquing each other's performances in class.

739 THEATER PRODUCTION

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors and St. Agnes students.

This is a one semester class that can be taken both semesters. This is a performance based course. The members of Theater Production are chosen by an application, audition, and interview process. The class is responsible for a majority of the production work done by the Southwell Players and Thespians. It explores audition, rehearsal, and production schedules. It provides students with opportunities to learn techniques in acting, directing, stage-management, costuming, designing and other theater production areas. Students are expected to actively contribute to current and upcoming productions as well as maintain academic eligibility to do so.

Offered during the Fall and Spring semesters. Each semester is 0.5 credit.

This class does not meet during one of the 7 regular periods.

Mr. Sullivan's approval is required.

742 STAGE PRODUCTION

0.5 CREDIT

Class is held at St. Agnes

Open to Strake Jesuit sophomores, juniors and seniors and St. Agnes students.

The class concentrates on on-stage and back-stage safety: building; designing, and producing set pieces, backgrounds, flats; adjusting and directing stage lighting; and producing the necessary set pieces for the SAA main stage Fall and Spring plays, Spring Musical, Greek Theater, and One Act-Student-Directed plays throughout the year. Students from both SJ and SAA are encouraged to participate in this class.

This class will meet during 8th period.

Offered during the Fall and Spring semesters. Each semester is 0.5 credit.

Pre-requisite: Introduction to Acting and Advanced Acting, or approval from Ms. Miller or Mr. Sullivan.

MUSIC COURSES

750 DIGITAL AUDIO PRODUCTION 1

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors and St. Agnes students.

Students will discover and explore introductory concepts used in music sequencing, notation and audio recording. No prior musical experience is needed, however, having training on an instrument or voice is helpful. Students will create music

using iPad, sequencing/editing software, synthesizers, drum machines. Students interested in the current methods of music creation and production should consider taking this course. The class includes a basic music theory component applied to music technology.

767 DIGITAL AUDIO PRODUCTION 2

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors and St. Agnes students.

This course reinforces MIDI recording and editing techniques learned in Digital Audio Production 1 while adding audio recording and mixing techniques into the class projects. Topics covered include mixing, equalization, effects and final mixdown of tracks to a finished product. Topics covered will include song writing, music for film and electronic music arranging. This class also includes a basic music theory component applied to music technology.

Pre-requisite: Digital Audio Production 1

751 MUSIC THEORY 1

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors and St. Agnes students.

This course is designed to give the student a background in the fundamentals of the language of music. It focuses on the mechanics of music as well as basics of music analysis. Students should have some prior experience with music.

Mr. Hernandez-Ching or Mr. Ware's approval is required.

752 MUSIC THEORY 2

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors and St. Agnes students.

This course continues the music theory background offered in the first semester course. It also has added emphasis on music analysis well as the fundamentals of music arranging and composing.

Prerequisite: Music Theory 1.

Mr. Hernandez-Ching or Mr. Ware's approval is required.

754 BAND

1 CREDIT

Open to Strake Jesuit and St. Agnes students.

The Strake Jesuit/St. Agnes Band performs at all football games as well as Christmas and Spring Concerts and Contests. The group affords instrumentalists the opportunity for both solo and ensemble performance. The band is open to Strake Jesuit and St. Agnes students by audition and can accommodate players from moderate to advance experience levels.

This class meets during 0 period before school from 7:00am – 7:45am.

Mr. Ware's approval is required.

755 MUSIC APPRECIATION 1

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors and St. Agnes students.

This course exposes the students to the first written music in history through the Medieval, Renaissance, Baroque, Classic, Romantic, Twentieth Century, and beyond. The students also learn the life and lifestyle of each major composer of each time period and the context of the societies in which they lived and worked. The course offers basic training in the technical aspects of music as well as performance opportunities. Students are expected to make comparisons of music of the past to present musical styles and to intelligently critique any style of music.

759 MUSIC APPRECIATION 2

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors and St. Agnes students.

This course exposes the students to the music of the twentieth century through the music of today, including the genres of jazz, country, electronic, rock, and pop music. The students also learn the life and lifestyle of each major composer of each time period and the context of the societies in which they lived and worked. The course offers more training in the technical aspects of music as well as performance opportunities. Students are expected to make comparisons of music of the past to present musical styles and to intelligently critique any style of music.

Prerequisite: Music Appreciation 1

756 CHAMBER ORCHESTRA

1 CREDIT

Open to Strake Jesuit and St. Agnes students.

The Strake Jesuit Chamber Orchestra offers string players a chance to develop their talents by performing music from the Baroque, Classical, and Romantic periods. Concerts are given in the fall and spring and smaller ensembles afford individuals more intricate and advanced music. Players of all levels of experience are welcome.

This class meets during 0 period before school from 7:00am – 7:45am.

Mr. Hernandez-Ching’s approval is required.

757 ORCHESTRAL WINDS AND PERCUSSION

0.25 CREDIT

Open to Strake Jesuit and St. Agnes students.

This class is designed to give the top wind players in the symphonic band credit for playing with the string orchestra. Full symphony orchestra literature is covered and rigid performance standards are expected.

Offered during the Fall and Spring semesters. Each semester is 0.25 credits.

This class meets on Mondays during 0 period before school from 7:00am – 7:45am and Thursdays as scheduled.

Open to Symphonic Band members by audition only.

Hernandez-Ching’s approval required.

758 JAZZ ENSEMBLE

0.25 CREDIT

Open to Strake Jesuit and St. Agnes students.

This select ensemble is made up of saxophones, trumpets, trombones, and rhythm section. This ensemble performs the music of the foremost big band composers, past and present. The ensemble performs two concerts each semester. Students must audition for placement in the Jazz Ensemble. Only members of the Symphonic Band may audition for the ensemble, with the exception of guitar, bass, and piano, which is open to any student. Auditions take place at the beginning of the fall semester.

Offered during the Fall and Spring semesters. Each semester is 0.25 credits.

This class meets during 8th period every Monday and Wednesday.

Contact Mr. Ware before the fall for audition music and information.

760 AP MUSIC THEORY

1 CREDIT

Open to Strake Jesuit juniors and seniors and St. Agnes students.

This course is designed to develop musical skills that will lead to a thorough understanding of music composition and music theory. Students are prepared to take the AP Music Theory Exam when they have completed the course. Students planning to major in music in college may be able to enroll in an advanced music theory course, depending on individual colleges’ AP policies.

Students are expected to take the AP Music Theory exam in May. There is a fee associated with the exam.

Prerequisite: Music Theory 1

Mr. Hernandez-Ching or Mr. Ware's approval is required.

790 VOCAL PERFORMANCE

0.5 CREDIT

Class is held at St. Agnes

Open to Strake Jesuit sophomores, juniors, and seniors.

Do you enjoy singing with the radio, in the shower or in the church congregation? Have you ever wanted to have a place and people to sing with just for fun while at the same time improving your vocal skills? This course is geared towards the student who desires to gain an appreciation for music by singing within a group setting. It incorporates the teaching of music fundamentals and their application to all kinds of music. A wide range of vocal styles including musical theatre, popular, jazz and classical will be explored.

This class can only be taken once.

791 MIXED CHORUS

1 CREDIT

Class is held at St. Agnes

Open to Strake Jesuit sophomores, juniors and seniors and St. Agnes students.

Mixed Chorus is composed of both St. Agnes and Strake Jesuit students from grades 9–12. Selected by audition in April of the previous year, chorus members meet daily, Monday through Friday from 7:10 am to 7:50 am (which may prevent you from being in SJET). Chorus members learn basic breathing and vocal focus and basic music theory. All members learn to sight read and are exposed to a variety of vocal styles, from Renaissance to Broadway. Every student is evaluated at least once a year by an individual jury, during which they perform chorus music in front of the music faculty. All students have the opportunity to perform at least three times a year, to audition for All State chorus, and to participate in the annual Chorus Tour. The week before the Fall and Spring performances, rehearsals will also take place from 4:00 - 6:00 p.m. (which may cause conflicts with athletic practices and games on those two weeks.) Fee and uniforms are required.

This class meets during 0 period Monday – Friday.

Audition required. Individual jury required at least once a year.

792 TRIPLE TRIO

1 CREDIT

Class is held at St. Agnes

This small chorus is composed of students from St. Agnes and Strake Jesuit who have been in Chorale or Mixed Chorus the previous year. The group meets daily during a class period. Throughout the year, the chorus performs various functions both in and out of the city. Students are selected by audition.

Prerequisite: Mixed Chorus.

A fee and uniform are required.

726 PERCUSSION ENSEMBLE

0.25 CREDIT

Open to Strake Jesuit and St. Agnes students.

This class is open to members of the Percussion Section in the Symphonic Band. The ensemble's goal is to develop Chamber Music skills on percussion, as well as techniques on many more percussion instruments and to broaden their knowledge about the Percussion Ensemble repertoire. This course will give our percussionists more performing opportunities.

Offered during the Fall and Spring semesters. Each semester is 0.25 credits.

This class meets during 8th period on Tuesday and Thursday.

VISUAL AND DIGITAL ARTS COURSES

740 ANIMATION

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors.

This course is an examination of concepts, characters and storyboards for basic animation production. Emphasis will be on creating movement and expression utilizing traditional or electronically generated image sequences. An introduction to traditional animation; course includes design, storyboarding, stop-motion and character animation. This course will give students a working knowledge of animation techniques necessary to design animation sequences.

744 DIGITAL GRAPHICS 1

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors.

This course is an introduction to elements and principals of design, typography and imagery as they apply to practical visual solutions. This course instructs the student in graphic design skills, including Adobe Photoshop and Illustrator, programs that employ various digital tools, materials and procedures that are employed in the communication arts industry.

745 DIGITAL GRAPHICS 2

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors, and seniors.

This course is an advanced study of digital editing and image correction as it applies to the needs of the graphics or photography for students and professionals. This class serves as a portfolio design class and students will focus their time on creating a minimum 5 piece portfolio. Students may choose to focus their time in Photoshop, Illustrator or Blender. Students will work with Wacom tablets and are required to enter a minimum of one art competition during the semester.

Prerequisite: Art, Animation and Computing 1 or Digital Graphics 1

777 CERAMICS

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors and St. Agnes students.

This is an introductory course to ceramics. It introduces students to fundamental methods of forming clay. The basic technique for hand-building (pinch pot, slab construction, and coil construction) will be demonstrated. Special emphasis is placed on the development of basic technique for throwing pots on the potter's wheel. Craftsmanship, creativity, and an appreciation for the elements that are inherent to well-made functional pottery are emphasized in this class. The Student will learn to use basic visual art elements and apply principles of design to all ceramic work. They will gain knowledge of a variety of art movements as well as historical use of ceramics as an art form in the production of decorative and functional pottery. Students will learn how to finish their pieces with various types of glaze and firing techniques. The terminology and definitions of materials and ceramic processes as well as ceramic art history will be presented.

778 ART APPRECIATION

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors.

This is an introductory course designed to acquaint the student with the greatest achievements of world painting, sculpture and architecture, with works that have inspired people of all cultures throughout time. The purpose of this course is to provide each student with an understanding of the diverse ways in which different cultures construct and represent their realities. Through thematic examination of both historical and contemporary art the student will acquire a vocabulary to describe formal properties of art, techniques of art making, and social, psychological, spiritual and physical uses of art. Art Appreciation will encourage students to question the nature of art and its relevance to daily life; it will introduce students to the elements and principles of design, focusing their attention through both projects and research. Students will develop an understanding and appreciation of art history, art theory, and studio art.

784 DIGITAL PHOTOGRAPHY 1**0.5 CREDIT**

Open to Strake Jesuit sophomores, juniors, and seniors.

This course is an introduction to digital photography as a fine art and as a means of personal expression. It provides students with the necessary technical and aesthetic skills to make quality digital photographs in ambient light. Topics covered include the understanding of the technology of digital and film cameras, basics of exposure, perspective, point of view, color principles, motion blur, composition, and the basic use of Adobe Photoshop.

No previous experience is necessary; however, students must own or have daily access to a digital camera with manual control (a DSLR camera). Cell phone photography is not applicable to the course.

779 DIGITAL PHOTOGRAPHY 2**0.5 CREDIT**

Open to Strake Jesuit sophomores, juniors, and seniors.

This course builds on the foundational concepts learned in Digital Photography 1, but offers another dynamic to those skills: the use of flash. The course will provide students with a deeper understanding of how the camera sees light and how that process may be manipulated by the addition of light to create more desirable, professional images. Topics covered include single and multiple light set ups, portraiture, product photography, light modification, and the careful balancing of ambient light with flash.

Consistent with Digital Photography 1, students must own or have daily access to a digital camera with manual control (a DSLR camera). Cell phone photography is not applicable to the course.

Prerequisite: Digital Photography 1

785 FUNDAMENTALS OF ART**0.5 CREDIT**

Class is held at St. Agnes

Open to Strake Jesuit sophomores, juniors and seniors and St. Agnes students.

Fundamentals of Art provides students with a working knowledge of the basic principles, theories, and concepts of two dimensional and three dimensional image-making. This course explores creative thinking skills and develops artistic awareness. Students practice the basic skills and techniques necessary for creating traditional and contemporary artwork. This course provides students with an opportunity to build a creative foundation through the understanding of the visual language of art and a basic knowledge of art materials and mediums.

793 BEGINNING DRAWING**0.5 CREDIT**

Class is held at St. Agnes

Open to Strake Jesuit sophomores, juniors and seniors and St. Agnes students.

With practice, anyone can learn to draw! This course is ideal for timid beginners and experienced artists. For the novice, Beginning Drawing equips students to sensitively represent whatever they see. Beginning Drawing students start with fundamental skills and gradually build upon those basic skills until anything is possible. Students with some previous training will gain greater confidence, speed, and sensitivity to aid in the full realization of their own inspirations. Beginning Drawing students explore their own potential with pencil, charcoal, ink and a variety of application methods through a series of technical and creative assignments. Gradually the student develops the ability to render real and imagined imagery through the mastery of sensitive observational sketching, value and texture reproduction, perspective application, and design principles. Beginning Drawing also equips the artist with methodological and conceptual skills that are essential for success in more advanced drawing and painting classes. This class is a prerequisite for Advanced Drawing and Beginning Painting. About two hours of homework per week is required.

794 ADVANCED DRAWING**0.5 CREDIT**

Class is held at St. Agnes

Open to Strake Jesuit juniors and seniors and St. Agnes students.

Advanced Drawing students explore a wide range of drawing materials and techniques such as charcoal, pencil, ink, mixed-media and acrylic paint. Students develop the technical skills to replicate what they see and the intuitive practice to communicate what they feel. Art historical examples and technical demonstrations are presented for each new project. The practice of concise language is encouraged during the critique process. This one-semester course encourages serious students to develop personal expression as well as professionalism. Artwork and lessons from field trips to museums, galleries and artist's studios are incorporated into the curriculum.

Prerequisite: Beginning Drawing.

796 BEGINNING PAINTING**0.5 CREDIT**

Class is held at St. Agnes

Open to Strake Jesuit juniors and seniors and St. Agnes students.

This is an excellent one-semester course for ambitious students who wish to compete and create portfolios. Students build on Beginning Drawing skills in combination with color theory instruction to create original paintings. Introduction to Prisma pencil, watercolor, acrylic and oil paint, as well as the history of painting, is offered. The semester encompasses demonstrations of new techniques, presentations on how artists have historically approached painting, critiques and working time in the studio. Students enjoy a day-long field trip to artist's studios to meet working artists, as well as exposure to galleries and museums.

Prerequisite: Beginning Drawing.

797 ADVANCED PAINTING**0.5 CREDIT**

Class is held at St. Agnes

Open to Strake Jesuit juniors and seniors and St. Agnes students.

Advanced Painting is designed for the artist who enjoyed our Beginning Painting class and can't wait to smell paint again! Skills acquired in previous classes such as Drawing and Beginning Painting equip the Advanced Painting student to create more personally motivated and ambitious art. The ultimate priority for each student is to use this class as an opportunity to make the art that she is passionately motivated to create. Each student is encouraged to customize assignments to her liking so that her art is uniquely representative of the artist and reflective of concepts and issues that are important to her. Like all advanced art students Advanced Painting students are required to participate in our end-of-year advanced art show. They are also given multiple opportunities to show and compete. This class also serves as an excellent portfolio building venue.

Prerequisite: Beginning Painting or Advanced Studio Art.

798 ADVANCED STUDIO ART**0.5 CREDIT**

Class is held at St. Agnes

Open to Strake Jesuit juniors and seniors and St. Agnes students.

This one semester course provides students with the opportunity to concentrate on portfolio building and competition. Students employ a variety of drawing, painting, and mixed media to create professional quality work. The course is designed to challenge the art student creatively and technically and to encourage independent problem-solving. Research and outside preparations are an integral part of the course work. Advanced Studio students enjoy a full day field trip to museums, galleries and visits from guest artists.

Prerequisite: Beginning Drawing and Beginning Painting or Advanced Drawing.

845 WEBPAGE DESIGN**0.5 CREDIT**

Open to Strake Jesuit and St. Agnes sophomores, juniors and seniors.

In this course, you will gain a foundational knowledge of website creation and be able to apply it to the planning, design and development of your own portfolio website over the course of the semester. By the end of this course you will be comfortable creating, coding and posting basic HTML and CSS files to the Internet. Equipped with a historical understanding of the web's evolution and key industry-standard design guidelines to ensure strong online presentation, you will have a foundational knowledge of website creation and apply it to the planning, design and development of your own web page over the course of the semester. Critical thinking will be encouraged through your class interactions, projects, and online postings.

DANCE**730 INTRODUCTION TO DANCE****0.5 CREDIT**

Class is held at St. Agnes

Open to Strake Jesuit and St. Agnes sophomores, juniors, and seniors.

This entry-level course introduces hip hop, jazz, ballet, modern, contemporary dance and possibly tap based on student interest. This course will focus on stretching to increase flexibility and strength training to improve athletic agility and ease of movement. Students will practice dance terminology in a variety of styles and learn to execute cutting-edge choreography. No previous dance training is required.

ADDITIONAL COURSES

COMPUTER SCIENCE COURSES

828 AP COMPUTER SCIENCE JAVA

1 CREDIT

Open to Strake Jesuit and St. Agnes sophomores, juniors, and seniors.

This course develops computer programming and problem-solving skills, using Java programming language. It covers the A-level curriculum as defined by the College Board and is comparable to an introductory college level course for computer science majors. The student who enrolls in this course must be able to think abstractly and have strong analytical and problem-solving skills.

Students are expected to take the AP Computer Science A exam in May. There is a fee associated with the exam.

834 PROJECTS IN COMPUTER SCIENCE

1 CREDIT

Open to Strake Jesuit juniors and seniors.

This advanced course in Computer Science provides students a unique opportunity to develop software in a dynamic, small group environment. During the first semester, students are introduced to cutting-edge technologies such as Python, XHTML, CSS, AJAX, and PHP. During the second semester, students work on technologically-complex projects which enhance Strake Jesuit's key operation of developing Men for Others. Students in this class are self-motivated learners who have a wide-breadth of technology experience.

Prerequisite: AP Computer Science

838 COMPUTER SCIENCE FOR ENGINEERS

0.5 CREDIT

Open to Strake Jesuit and St. Agnes juniors and seniors.

This course focuses on the fundamentals of modern engineering and technology in the information and communications age. STEM related topics covered include problem-solving with robotics, programming with data structures, electrical and mechanical engineering concepts, and manipulating various digital media. Students are immersed in individual and small group projects throughout the semester like designing and building a Rube Goldberg machine, designing, building and successfully launching a model rocket, designing and building a functional robot that performs tasks, using Arduino boards to design and manipulate electrical circuits (lights and motors), and building a web page that highlights your particular engineering field of interest. The five major engineering fields of discipline are explored to new and relevant applications of math, science, and technology to solve important engineering problems of the day.

839 BUSINESS COMPUTING

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors.

This course provides a foundation in information technology and how it relates to everyday business computing. Aspects of marketing, project planning, and finances will be explored in conjunction with advanced computer skills. Topics covered include web design using HTML 5.0 and CSS code, business/personal finances, marketing techniques, business ethics, business start-up ideas, basic stock portfolios strategies, and business software applications including Excel spreadsheets and MS Access databases. Students will work on individual and small group projects to acquire useful life-long business skills.

845 WEB PAGE DESIGN

0.5 CREDIT

Open to Strake Jesuit and St. Agnes sophomores, juniors and seniors.

In this course, you will gain a foundational knowledge of website creation and be able to apply it to the planning, design and development of your own portfolio website over the course of the semester. By the end of this course you will be comfortable creating, coding and posting basic HTML and CSS files to the Internet. Equipped with a historical understanding of the web's evolution and key industry-standard design guidelines to ensure strong online presentation, you

will have a foundational knowledge of website creation and apply it to the planning, design and development of your own web page over the course of the semester. Critical thinking will be encouraged through your class interactions, projects, and online postings. Students earn a 0.5 Fine Arts credit for this course.

851 AP COMPUTER SCIENCE PRINCIPLES

1 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors.

This course develops computational thinking vital for success across multiple disciplines and introduces students to the central ideas of computer science: creativity, abstraction, data & information, algorithms, programming, the Internet, and the global impact. It is comparable to a first-semester introductory college computing course. The student who enrolls in this course will apply the creative process in using computer technology, exploring topics that interest them, and developing computational projects. Students will also develop effective communication and collaboration skills as they work to solve problems that impact the community, society, and the world.

Students are expected to take the AP Computer Science Principles exam in May. There is a fee associated with the exam.

848 MOBILE APP DEVELOPMENT

0.5 CREDIT

Class is held at St. Agnes

Open to Strake Jesuit and St. Agnes sophomores, juniors, and seniors.

Imagine downloading an app to your phone that you created! In this one semester course, students will put their creativity and critical thinking into action and will enhance their problem-solving skills as they learn to write software for mobile devices such as smartphones or tablets. Students will learn about the importance of screen size, hardware specifications, load-time over a wireless network, geolocation and finger-friendly navigation when designing their mobile apps. Just like professional developers, students will work in teams to develop apps through online software development tools. By the end of the course, students will have a portfolio of apps that they designed from the ground up.

GENERAL ELECTIVES

673 ACCOUNTING

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors.

Accounting is a one semester course which introduces students to concepts in both management and financial accounting. Students examine the accounting cycle and the rules of debit and credit in addition to accounting concepts such as revenue recognition, inventory, present value, and long-term liabilities. Financial statements are examined and created as well in a variety of projects utilizing essential accounting ratios.

684 BUSINESS FINANCE

0.5 CREDIT

Open to Strake Jesuit sophomores (if Personal Finance is taken in the Fall), juniors and seniors.

This course is a one semester course that introduces the basic concepts of finance and the mathematics of finance. Topics will include: financial institutions, markets, and financial statements; cash flow analysis, key financial ratios, interest rates, and taxes on returns to investment; risk and return trade-off, time value analysis, present and future values, financial options, and valuation of bonds and common stock. An individual, empirical project enables students to evaluate the financial condition of contemporary business firms. With the young men in the course leaving for college soon with an interest in pursuing careers within the business world, the introductory topics of finance will give a “sneak peek” to their future career path.

Prerequisite: Personal Finance

747 CHARACTER AND LEADERSHIP

0.5 CREDIT

Open to Strake Jesuit sophomores, juniors and seniors.

Character and Leadership is a one semester course which will help develop and improve character and leadership traits that reflect Ignatian values, servant leadership, and discernment in order to help students become Men for Others. Full growth of the person and cultivation of gifts and talents which leads to action will be a main focus.

761 TV BROADCASTING**0.25/0.5 CREDIT**

Open to Strake Jesuit sophomores, juniors and seniors.

Every morning during homeroom, SJET airs across campus. In this class that meets during 0 period, the students will be responsible for putting together the show from script to airtime. This puts the production of every morning show in the hands of the students. They will prepare the content and operations of the show: scripts, audio, directing, technical directing, teleprompting, distributing, camera operating and anchoring.

Offered during the Fall and Spring semesters. Each semester is 0.25 credits.

This class meets during 0 period.

Prerequisite: Digital Media Arts 1 or an interview with Mr. Pepe.

768 DIGITAL MEDIA 1**0.5 CREDIT**

Open to Strake Jesuit sophomores, juniors, and seniors.

This semester-long course is a thorough investigation into the processes of video and media-based art. Students will develop their observation, perception, and creative expression through the essentials of story development for video, creative use of video cameras, audio engineering, editing with Adobe Premiere and some Adobe After Effects. ALL of the skills that are necessary for the TV Broadcasting class to function properly (SJET) will also be studied. This course is positioned to be a veritable content-factory for SJET as well as the various design/artistic needs of the scoreboards on campus, so assignments will be heavily project-based and a fair amount of class time will be devoted to content creation. A personal portfolio will be the culminating work. This course can only be taken once

769 DIGITAL MEDIA PRODUCTION**0.5 CREDIT**

Open to Strake Jesuit sophomores, juniors and seniors.

This semester-long course is a praxis-oriented course for the skills learned in Digital Media Arts 1. It will be relied upon even more for the execution of skills previously learned and as a means to create content as we interpret, evaluate, and justify artistic decisions in one's own artwork and the work of peers. A personal portfolio will be the culminating work.

Prerequisite: Digital Media 1 or approval following an interview with Mr. Pepe.

771 FORENSICS**1 CREDIT**

This course is open to those students who have been members of the Debate Team for at least one quarter. This class will involve training in intermediate and advanced debate theory and research. Course requirements will include completing research assignments on current topics, briefing arguments, practice debates, and tournament competition. This course will also provide an opportunity for students interested in speech events--e.g., oratory, extemp --to develop skills necessary to attend and compete in tournaments. Requirements for these students will include writing speeches, developing files, perfecting style and delivery and competing in tournaments.

This class does not meet during one of the 7 regular periods.

Mr. Crist's approval is required.

776 ACADEMIC COMPETITIONS**0.5 CREDIT**

Open to Strake Jesuit sophomores, juniors and seniors.

This course is open to those students who have been actively involved with quiz bowl for at least one year. Through this course students will practice learning via the most modern advanced learning theories. Each student will be involved in the

development of an individual learning program for himself—he will choose subject areas from science, social studies, and humanities in which to specialize. Students are required to participate (locally and/or nationally) in a minimum of eight academic competitions throughout the year. This course will have a service/leadership component: students will assist with the development of the prep bowl materials for the following year. Additional requirements will include the development of files on major academic topics from a variety of disciplines. This course is ideal for the precocious student looking for greater challenge.

Offered during the Fall and Spring semesters. Each semester is 0.5 credit.

Mr. Keogh's approval is required.

Prerequisite: Quiz Bowl

PHYSICAL EDUCATION

913 FOUNDATIONS OF PERSONAL FITNESS

1.0 CREDIT

Foundations of Personal Fitness represents a new approach in physical education and the concept of personal fitness. The basic purpose of this course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. The knowledge and skills taught in this course include teaching students about the process of becoming fit as well as achieving some degree of fitness within the class. The concept of wellness, or striving to reach optimal levels of health, is the corner stone of this course. In essence, this course represents a combination of the best parts of a traditional physical education course and a traditional health course.

925 SPORTS MEDICINE

0.5 CREDIT

Class is held at St. Agnes.

Open to Strake Jesuit and St. Agnes juniors and seniors.

The Sports Medicine course will work to introduce students to professional fields that involve sports and medicine. Material presented will include exposure to anatomy; physiology; psychology of sport and injury; injury recognition, evaluation, prevention, and care; career opportunities; and professional liability and responsibilities. Coursework will include hands-on activities, observational learning, and a variety of guest speakers who will provide current information in the field of sports medicine. This course requires students to attend 5 after-school athletic events during the semester.

ATHLETIC P.E.

0.5 CREDIT EACH

Athletic P.E. gives students the opportunity to develop the necessary skills and strengths for participation in their sport. It also challenges the athletically gifted students to improve their ability and unites all the team members in a particular sport. These classes meet during 8th period unless otherwise noted.

Each individual sport's Head Coach's approval is required.

FIRST SEMESTER:

- 950 Wrestling (Mr. Stovall)
- 951 Football (Mr. Kubiak)
- 952 Cross Country (Mr. Kerley)
- 953 Soccer (Mr. McDonald)
- 954 Basketball (Mr. Amorosa)
- 965 Swimming (Mr. Keogh)
- 956 Baseball (Mr. Garcia-Rameau)
- 957 Golf (Mr. Dunford)
- 958 Tennis (Mr. Kenny)
- 959 Lacrosse (Mr. Anderson)
- 970 Athletic Training (Mr. Duhon)
- 971 Rugby (Mr. Crowley)
- 972 Track (Mr. Collier)

SECOND SEMESTER:

- 960 Wrestling (Mr. Stovall)
- 961 Football (Mr. Kubiak)
- 962 Track (Mr. Collier)
- 963 Soccer (Mr. McDonald)
- 964 Basketball (Mr. Amorosa)
- 955 Water Polo (Mr. Keogh)
- 966 Baseball (Mr. Garcia-Rameau)
- 967 Golf (Mr. Dunford)
- 968 Tennis (Mr. Kenny)
- 969 Lacrosse (Mr. Anderson)
- 980 Athletic Training (Mr. Duhon)
- 981 Rugby (Mr. Crowley)