

Registration: Interim

Interim 2016

Art

CANCELLED ~~ART W40 African American Art.~~ This course surveys the history of African American art. While this history is too broad and rich to be treated conclusively during Interim,

and nineteenth centuries), and the Nationalmuseum. In and around Uppsala, we shall visit the oldest town), Steninge Manor (completed in 1705), and the Rosersberg Palace (the seventeenth-

may fulfill an elective in the Art majors. Prerequisite: ART 153 and ARTS 250 or permission of the instructor. *A. Greidanus*. 2:00 p.m. to 5:00 p.m.

CANCELLED ~~IDIS W12 New Orleans: Space, Place and Race. Course dates: January 6-26. Fee: \$2998. *J. Steensma Hoag*. Off campus.~~

IDIS W16 The Devil in Western Culture. *B. Berglund, H. Luttikhuisen*. 8:30 a.m. to noon.

IDIS 150 01 DCM: Art & Culture of Bathing. *C. Hanson*. 2:00 p.m. to 5:00 p.m.

Biology

BIOL W60 Pathophysiology.

is changed when disease strikes. This course presents aspects of many human diseases, including the biochemical or cellular causes of the disease, structural and functional changes resulting from it, and the prognosis related to it. Diseases of the cardiovascular, gastrointestinal, hormonal, muscular, neural, renal, reproductive, and respiratory systems are covered using the classic organ system approach and case studies. Prerequisite: Biology 206 or 331. *R. Nyhof.* 2:00 p.m. to 5:00 p.m.

BIOL W80 Ecology of the Amazon Rainforest. The Amazon River Basin is home to the largest rainforest on Earth. At roughly the size of the contiguous United States it is a repository of ecological goods and services not only for local tribes and communities, but also for the rest of the world. Participants in this course investigate the ecology, evolution, and natural history of the Amazon rainforest and are introduced to some of the customs and diverse cultures of the Ecuadorian people. Daily fieldwork combines plant and animal identification with an investigation of ecological processes and an evaluation of human impacts. Particular attention will be given to discussions on cross-cultural issues and to our Biblical calling to be Earth keepers. Students travel to Ecuador to visit the Cuyabeno Wildlife Reserve and the Yasuni National Park. Daily excursions include camping, hiking, bird-watching, and canoeing. This course may fulfill an elective in the Biology major. This course will fulfill the CCE requirement. Prerequisites: Biology 225 and permission of the instructor. Course dates: January 6-26. Fee: \$3900. *C. Blankespoor.* Off campus.

BIOL W81 Silent Spring & Stolen Future. The slogan of the post-Wo

in industry, agriculture, and public health.

chemicals by revealing many environmental and health effects of pollution. While many chemicals were restricted during the 1970-80s, the publication of *Our Stolen Future* in 1996 revealed the ability of some chemicals to disrupt hormonal systems at very low doses in wildlife and humans. Today our society uses 60,000-80,000 chemicals, with 1000-2000 new chemicals introduced every year. Legacy pollutants still contaminant some ecosystems, concern is emerging about newer chemicals, and old debates have been revived, such as whether DDT should be used to control malaria. This course explores issues related to the sustainable use of chemicals in both developed and developing countries. Scientific and policy issues are examined within the context of Christian environmental perspectives. This course is intended to benefit students interested in environmental science, biology, ecology, natural resources, pharmacology, medicine, environmental chemistry, environmental studies, and public health. In addition to the books listed above, course readings will emphasize new articles in the scientific literature. With advisor approval this course will serve as an upper-level elective in the environmental science major, environmental studies major and minor, public health major and minor, biology major and minor, biotechnology minor, and biochemistry major and minor. Prerequisites: BIOL 224 or 225 and CHEM 253 or 261, or permission of the instructor. *K. Grasman.* 8:30 a.m. to noon.

[IDIS W15 All About Plants.](#) *D. Warners.* 2:00 p.m. to 5:00 p.m.

IDIS W40 Engaging Development in Cambodia. Course dates: January 6-26. Fee: \$3800. L. De Rooy, D. Dornbos Jr, P. Dykstra-Pruim. Off campus.

IDIS W60 Sustaining Hawaii. Course dates: January 6-26. Fee: \$3500. D. Koetje. Off campus.

IDIS W80 Eye Care in Mexico. Course dates: January 6-25. Fee: \$1500. L. Gerbens, J. Ubels. Off campus.

IDIS W83 China: Culture, Medicine & Bioethics. Course dates: January 6-25. Fee: \$4050. A. Shen. Off campus.

IDIS 150 03 DCM: Eugenics & Personal Genomics. Fee: \$40. R. Bebej, A. Wilstermann. 8:30 a.m. to noon.

IDIS 150 37 DCM: Life in Winter. Fee: \$100. R. DeJong, D. Proppe. 2:00p.m. to 5:00p.m.

Business

BUS W10 Business as Mission in India. It has become important for business persons to understand India.

business in society. Explore both by engaging with business people in India, many of whom are Christian. Travel to India (Delhi, Agra, Hyderabad and Bengaluru) and explore the history and culture of India as well as engage with Christians at approximately fourteen organizations. These organizations are either for-profit or non-profit, most of which are operated by Christians with a business as mission model. The course includes readings on Indian culture, business as mission and cross-cultural understanding. Evaluation is based on engagement with the business persons, briefings, journaling and a reflective essay. This course will fulfill the CCE requirement. Course dates: January 6 - 27. Fee: \$4300. *L. Van Drunen*. Off campus.

BUS W80 Who Needs QuickBooks?

medium sized organization is a candidate for QuickBooks accounting software because every organization needs to know where the money comes from and where it goes. Financial stewardship and accountability are essential for churches and other not-for-profits as well as for-profit entities. Good data is the basis for good decision-making, and millions of smaller organizations utilize QuickBooks accounting software to track transactions and help make decisions. Students in this course learn how to use QuickBooks to set up and operate a basic accounting system, as well as how to generate understandable reports. Anyone who anticipates being the financial point person for a small to medium sized organization can likely benefit from this course. A fundamental understanding of accounting is necessary to utilize the course software. This course may fulfill an elective in the Accounting minor. Prerequisite: BUS 204. *D. Cook*. 8:30 a.m. to noon.

[IDIS W19 Entrepreneurship in the Arts. *J. Risner, S. Smartt*. 8:30 a.m. to noon.](#)

[IDIS W22 Personal Finance. *D. Pruis*. 8:30 a.m. to noon.](#)

Communication Arts & Sciences

CAS W10 Crime & Detective Fiction. This course involves close study of crime and detective fiction mostly by American and British authors, though also by writers from Scandinavia. The course focuses on reading novels and short stories, but students also watch and analyze film and television adaptations. Learning objectives include an understanding of the history and development of the genre; an understanding of how crime and detective stories address cultural attitudes about crime and punishment, social problems, and human nature; an ability to engage in a close reading of literary and cinematic texts; and the ability to write a short piece of crime fiction. *G. Pauley.* 8:30 a.m. to noon.

CAS W40 Theatre and Bullying Prevention: a workshop production of a new play. Theatre is located in a social context. The world of the play provides a testing ground for understanding why characters do what they do, what pressures are brought to bear, and how these characters choose to respond to this pressure and resolve their dilemmas. The conversation doesn't stop at the end of the performers and the audience. It provides a unique way to begin dialogue and negotiate issues of bullying and bullying prevention. This course will acquaint students with contemporary research in bullying prevention. The final goal of the course is use this knowledge to produce a new play about bullying prevention. The course will give students the opportunity to exhibit their theatrical and technical skills in a performance practicum, which will culminate into six performances before an audience. Three or four performances will occur for school audiences during the day, the remainder will be evening performances for a general audience, which will occur during the first week of the second semester. Students will be evaluated through critical written responses to the readings, class participation and a satisfactory performance in the production. This course will meet in the afternoons with afternoon and evening rehearsals. Some mornings and Saturdays may also be required for play production work, but no more than eight hours will be required on any given day. This course may fulfill an elective in the theater major. *D. Freeberg.* 2:00 p.m. to 5:00 p.m. and 6:00 p.m. to 9:00 p.m.

[IDIS W19 Entrepreneurship in the Arts. J. Risner, S. Smartt. 8:30 a.m. to noon.](#)

IDIS W28 Disability

Chemistry

Congregational Ministry Studies

CANCELLED CMS W10 Word on the Street. This course will consider what it means to proclaim God's Word in a variety of contexts, especially those of crisis. Several key questions will guide our study: (1) To what degree, if any, does preaching change according to the context of the preacher and congregation? (2) How does church proclamation act as a form of resistance for oppressed communities? (3) Should

challenging the status quo and calling for radical transformation? (4) What does it mean for preaching to comfort and support communities in crisis? — We will begin by examining the

Perhaps surprisingly, preaching became an important means of both support of and resistance against the Nazi takeover of Germany and, consequently, the German church. We will also notice how for some pastors preaching became a way to protest the persecution of Jews and even became the means by which some churches aided Jews in their efforts to escape Nazi terrorism. From here, we will further consider a variety of contexts around the city of Grand Rapids, asking what difference preaching can or should make in these settings. We will embark on field trips to various Grand R

Rapids Public Schools main office, the West Michigan Center for Arts and Technology, several organizations which serve the homeless and poor, and the local jail. We will also engage those preachers who work in these contexts and explore how their proclamation of the Gospel supports, shapes, or challenges these contexts, especially for those in crisis. *T. Cioffi.* 2:00 p.m. to 5:00 p.m.

CMS W11: Leadership and Emotional Resilience. This course explores the role of emotional health in the life of an effective Christian leader. Based on the fields of positive psychology, neuroscience, neuropsychology, leadership studies, economics, and sociology, students learn the nuts and bolts of psychological well-being as a prerequisite for effective leadership. A variety of practical exercises provide students with the opportunity for personal growth, self-awareness, providing resources for living "the good life"-a life full of purpose and meaning. This course was designed for first year Perkins Fellows but is open to non-Perkins fellows as well. *C. Edmonson* 8:30 a.m. to 12 p.m.

[IDIS 150 07 DCM: Young Adults & the Church. L. Elliott. 2:00 p.m. to 5:00 p.m.](#)

Computer Science

CS W60 Agile Game Development in South Korea. South Korea is among the most-connected countries in the world, providing its citizens with access to inexpensive high-speed Internet service. Relatedly, it is also a country in which gaming is very popular. In this project-oriented course, we will travel to Handong Global University (HGU) in Pohang, South Korea where each Calvin student will be paired with an HGU student. During weekdays, each pair of students will learn about and apply agile development techniques to design and build an original game, which they will present and demo the final day at HGU. Each weekend, we will travel to Korean cultural sites, such as royal palaces, historic temples, and so on, where students will explore and reflect on aspects of Korean history and culture. We may also visit a Korean tech giant such as Samsung or LG. Students will spend the final weekend exploring the capital city Seoul, before returning to Calvin. This course will fulfill the CCE requirement. Prerequisites: CS 100, 104, 106, or 108. Course dates: January 6-26. Fee: \$3645. *J. Adams*. Off campus.

CS W61 Design Principles & Patterns. In this course students will learn about, implement, and evaluate various advanced object-oriented design principles, such as "Encapsulate what varies", "Favor composition over inheritance", etc., as well as design patterns that follow those principles, such as Strategy, Observer, Decorator, Singleton, and so on. Students will apply these patterns to real-world programs, written previously by themselves or by others. Additionally, students will learn about and use advanced STL classes and template programming in C++. Opportunity will be given to apply design patterns and equivalent advanced mechanisms in other languages, such as Python, Java, or C#. Prerequisites: CS112 and CS262. *V. Norman*. 8:30 a.m. to noon.

[IDIS W86 Big Decisions, Big Data. *P. Bailey*. 2:00 p.m. to 5:00 p.m.](#)

[IDIS 150 06 DCM: Creating Smartphone Apps. *K. Vander Linden*. 2:00 p.m. to 5:00 p.m.](#)

Developing a Christian Mind (DCM)

Developing a Christian Mind (DCM) is a first-year core course that introduces students to the central intellectual project of Calvin College, the development of a Christian worldview, and a faith-based engagement with culture. All DCM sections include common readings and plenary lectures, which sketch out the broad contours. Each section then works out the implications of a Christian frame of reference in relation to an issue of contemporary relevance. Student evaluation is based on classroom participation, quizzes on the readings and lectures, writing assignments or presentations, and a final exam.

IDIS 150 01 DCM: Art & Culture of Bathing. Because bathing is so closely tied to the body,

differences and similarities present across cultural and socio-economical lines. The spiritual
attempting to recreate the church, and those who see themselves living in exile from the church.

demands for diversity, flexibility, and innovation upon congregational life and worship will be explored. Students will develop an understanding of the unique characteristics of faith development for this generation, as well as best ministry practices addressing these issues. *L. Elliott*. 2:00 p.m. to 5:00 p.m.

IDIS 150 08 DCM: Learning from the Stranger. This course is for students who would like to
-cultural missions or
off-campus programs. It is also for those who would like to explore how to learn better from
other students, staff or faculty at Calvin w
perspective. Finally, this course is for students who are willing to explore how they themselves

deepen their cultural intelligence (CQ), that is, begin to develop the knowledge, skills and virtues related to understanding cultures, including their own. Students will explore dimensions of their own cultures and those of their peers, and will encounter the Native American culture in particular through field trips and guest speakers. Texts for the course include chapters from Calvin professor David Smith's *Learning from the Stranger* and Edward T. Hall's *The Silent Language*, as well as Patty Lane's book, *A*. Together, these provide a widened lens through which students encounter the core DCM text, *Engaging*. Student learning objectives include a heightened awareness of how cultural contexts and faith traditions impact human relationships; a deeper understanding of the Reformed worldview and how it relates to other faith traditions; and improved listening and conflict-resolution skills. Participation in optional, additional activities will enable students to earn Cross-Cultural Engagement (CCE) credit. Fee: \$50. *B. Haney*. 2:00 p.m. to 5:00 p.m.

IDIS 150 09 DCM: Equity & Justice in Urban Education. There is a great deal of concern in society today about failing schools, low student achievement, and educational inequality. In particular, schools located in urban communities are often subject to criticism and scrutiny because of their high drop-out rates and low test scores. Efforts to improve urban schools have highlighted both the challenges faced by urban students and teachers and the role that schools can play in increasing the educational opportunities available to their students. Discussions of urban schools and how to improve them, therefore, lead to a consideration of issues of equity and justice in schools and society and the potential for urban schools to promote equity. This course will study these issues by way of readings, activities, videos, group projects, and class discussions. It will also include visits to local urban schools. Students will engage in learning activities designed to promote understanding and exploration of equity, social justice, urban schools and communities, school structure and organization, curriculum, teaching, and learning. *J. Walcott*. 8:30 a.m. to noon.

~~CANCELLED IDIS 150 10 DCM: High School in the Movies.~~ This course will explore how the world of education has been portrayed in the movies. By offering descriptions of current conditions in the classroom or exhibiting positive and negative models of teachers, movies portray particular perspectives that may offer valuable lessons for those interested in teaching.

for pondering related issues in their home culture. *H. De Vries*. 8:30 a.m. to noon.

IDIS 150 13 DCM: Cooking & Eating in American History.

expected to reflect on their own understanding of beauty and how it connects with our lives of faith. *M. Bolt*. 8:30 a.m. to noon.

IDIS 150 17 DCM: Music & Politics. This course explores the complex relationship between music and politics: how governments, institutions and special-interest groups have influenced the kinds of music made (or not made) in a given context, the variety of ways music has been used to meet political objectives, and the many different ways music has been understood to carry political meaning. By examining several case studies from the 20th century to today, the course will probe the positive and negative social functions for music in political contexts, considering when and how music can be a tool for expression, teaching, solidarity, identity-formation, and satire on the one hand, but also for oppression, control, dehumanization, and even torture on the other. music from the North American labor movement (1920s and 30s), music in Nazi Germany and the Holocaust, Soviet music during the Cold War,

Redemption' paradigm so frequently employed at Calvin College in discussions of its educational mission and Reformed worldview. In particular, this section strives for greater theological insight through a study of the doctrines of the Trinity, the Incarnation, and especially the atoning work of the Son of God ("atonement theory"). Throughout the course, the implications of the less understood Trinity/Incarnation/Atonement triad will be drawn out with respect to the more familiar Creation/Fall/Redemption triad. *A. Griffioen*. 8:30 a.m. to noon.

IDIS 150 24 DCM: Theology in Movies & Music. This course examines the expression of theological themes in select musical works and films. Compositions studied include works by Haydn (*The Creation*), Bach (*St. John Passion*), and Mozart (*Requiem*). Films analyzed include *The Mission*, *The Seventh Seal*, and *Amadeus*. Where possible, the relevant libretto or screenplay is read prior to listening to or viewing the work in question. Prerequisites: interest in theology, the arts, and their intersection; readiness to listen carefully and watch discerningly; and willingness to engage in discussion. Students will: 1) acquire a knowledge of select theological themes, 2) become acquainted with certain sacred compositions (and their composers), 3) enhance their listening skills, 4) become acquainted with certain films (and their directors), 5) advance their skills in film analysis, and 6) exercise their skills in discussion and oral presentation. *R. Plantinga*. 2:00 p.m. to 5:00 p.m.

CANCELLED IDIS 150 25 DCM: Let's Talk about Health. ~~What is the role of health and health care in overall well-being? How does physical illness affect one's identity and social roles? This class explores concepts of the person in environment, showing the interactions between physiological health and psychological, social, and spiritual well-being. Readings and class discussions explore how structural barriers and systematic oppression contribute to poor health outcomes. Students will critically think about how the Reformed Christian perspective contributes to our understanding of health and well-being, integrating key concepts such as total~~

Two main factors vitalize and inform this exchange, as we recognize that we are considering the religious background and potential spiritual perspectives of our Hispanic neighbors in North America and we accept a unique opportunity to share our own faith inheritance and perspectives from within a potentially new context. A. *Tigchelaar*. 8:30 am to noon.

suffering? Through reading, journaling, excursions into the biology laboratory, art, music, personality assessments, strength-finders tests, guest speakers, movies, and class discussions we will explore the various ways in which God speaks into and shapes our lives in the context of the larger drama of Creation, Fall, Redemption, & Vocation. The class will culminate in a final project that asks students to look for key themes and threads in their life and represent them in a medium of their choosing (memoir, music, painting, poetry, etc.). *J. Bonnema*. 8:30 a.m. to noon.

IDIS 150 34 DCM: The Local Church in the 21st Century. Few institutions have undergone more change in the past twenty-five years than the local Christian church. Changes in worship style, music, the visual arts, and the role of lay leadership have driven some of these changes. Still deeper, the very nature and mission of the church are also being reexamined. Many are

What is the role of the local church in

Additionally the church in North America is being challenged by a society that is rapidly becoming more pluralistic, more secular, and more materialistic. Local churches must be ready to respond and speak clearly to these and other issues. This course will challenge students to think carefully about the nature and mission of the local church within a broad Kingdom context, and about their own personal roles within in it. Please note: Students will be expected to visit local churches each Sunday of interim. *R.S. Greenway*. 2:00 p.m. to 5:00 p.m.

IDIS 150 35 DCM: Grand Rapids: The Interim. Experiencing the rich context, history, and culture of Grand Rapids is sometimes difficult given the demands of coursework. This course, however, treats the city as our textbook and looks to religious leaders, elected officials, nonprofit organizations, and the business community to inform our understanding of this place. An experiential approach to learning about Grand Rapids offers students the opportunity to explore the city through visits to local businesses and organizations, recreational opportunities, and excursions to a variety of sites important to local culture. A special emphasis is placed on social justice and visual research techniques the use of maps or images, for example, to collect, analyze, and explain society and culture which will allow students to explore the city through the lens of sociology and also to see this place from different perspectives, particularly perspectives that are often marginalized at Calvin. This course will fulfill the CCE requirement. Fee: \$200. *J. Kuilema*. 2:00 p.m. to 5:00 p.m.

IDIS 150 36 DCM: The Big Bang Theory. This course will be a scientific and historical s understanding of the physical universe, from ancient history to the present. Important discoveries will be highlighted along the way, with fundamental scientific concepts introduced as needed in order to provide a clear picture explaining the popularity of the big bang theory. In addition, students will explore the varying Christian perspectives on the big bang theory, seeking to understand some of the conflicting interpretive ological legitimacy. This is not a survey introduction to astronomy but will cover topics pertinent to understanding the big bang theory as a scientific model. It is designed to be accessible to anyone with a high school level education in science and a firm grasp of algebra. *J. Smolinski*. 2:00 p.m. to 5:00 p.m.

Dutch

[IDIS 150 12 DCM: The Tensions of Tolerance. H. De Vries. 8:30 a.m. to noon.](#)

Economics

CANCELLED ECON W41 The Social Teaching of the Christian Church. This course considers how Christians have viewed, lived in, and shaped the broad social order around them. It takes a long view: We will study the social teaching of the infant church, the Patristic and early Middle Eastern monastic movements, Eastern Orthodoxy, the experience of the European Christian Empire, the Protestant Reformers, Methodism on both sides of the Atlantic, the Social Gospel movement, African American and American Indian social teaching and practice,

field trips, journaling, group presentations, and a term research project. This course may fulfill an elective in the economics major. *K. Schaefer.* 8:30 a.m. to noon.

IDIS W26 South Korea: Business & Culture. Course dates: January 6 - 26. Fee: \$3,900. *R. Brouwer, C. Jen, E. Van Der Heide.* Off Campus.

IDIS 150 08 DCM: Learning from the Stranger. Fee: \$50. *B. Haney.* 2:00 p.m. to 5:00 p.m.

IDIS 150 31 DCM: Know why you believe. *K. Schaefer.* 8:30 a.m. to noon.

Education

CANCELLED EDUC W10 Zambia: Education within the Culture (MAY). This course explores enactment of culturally relevant pedagogy in various schools in the Lusaka area of Zambia. Participants will teacher aid and conduct teacher research within two different schools over a two-week timeframe. A few days will be used to explore some of the beautiful cultural sites of Zambia and the surrounding region such as Victoria Falls, and experience a Botswana game drive. In particular, learning about culturally relevant pedagogy will occur through examination of country culture via engagement with society, religion, and politics. The combination of group school visits, classroom-aiding experiences, interactions with Zambian school leaders, and local guest speakers will help students to develop their analytical tools of describing pedagogy of those living in a culture very different from that found in the United States.

course to develop new ways of seeing American schooling and International schooling that is increasingly multicultural. Although the focus of this course is on education, students in other majors will be placed in settings appropriate to their professional interests and will also benefit from international development trends. This course will fulfill the CCE requirement. Course dates: May 22 - June 12. Fee: \$4250.

[IDIS 150 09 DCM: Equity & Justice in Urban Education. J. Walcott. 8:30 a.m. to noon.](#)

CANCELLED ~~IDIS 150 10 DCM: High School in the Movies. A. Boerema. 8:30 a.m. to noon.~~

opportunities for the mind to roam in conversation but also hands-on exercises, mini-field trips, and invitations to play. Throughout the course, students reflect, dabble, scheme, and dream in a sketchbook—blank pages for their observations, questions, and creative responses, including the rough beginnings of stories, poems, or compositions. The ultimate goal, then, is that the course will serve as a hothouse for student creativity. This course may fulfill an elective in the writing

this interim for a class that fulfills a line in the writing major. *L. Klatt*. 8:30 a.m. to noon.

ENGL 374 English Grammar. Students will study and work with traditional grammar, focusing on its history, its system, its applications, its competitors, and its place in the middle-school and high-school classroom; special emphasis will be given to the system and terminology of this grammar. *K. Johnson, J. Vanden Bosch*. 8:30 a.m. to noon.

[IDIS W17 Inside the January Series.](#) *K. Saupe*. 8:30 a.m. to 11:30 a.m. and 12:15 p.m. to 1:30 p.m.

[IDIS W24 Preparing for the Semester in Britain.](#) *D. Ward*. 2:00 p.m. to 5:00 p.m.

~~**CANCELLED IDIS 150 11 DCM: Reading Creation Care.** *S. Felch*. 2:00 p.m. to 5:00 p.m.~~

[IDIS 150 28 DCM: Dramatic Families.](#) *D. Urban*. 8:30 a.m. to noon.

[IDIS 150 38 DCM: Prison Education and Outreach.](#) *K. Benedict*. 8:30a.m. to noon.

Engineering

ENGR W80 Stormwater Management. Civil and Environmental Engineers today are frequently faced with the problem of managing the impacts of stormwater within both urban and rural environment. Management involves addressing issues of both stormwater quantity and quality. The first objective of this course is to introduce the basic principles, computational methods, and treatment approaches used to manage stormwater quantity and quality. The second objective is to introduce the students to issues of professional practice through design projects and assignments. The assignments will address problems of both urban and rural stormwater management and treatment. Guest speakers and case study reviews are also used to emphasize basic principles and management techniques. This course fulfills the Engineering Special Topics requirement. Prerequisite: Engineering 320 and 306 or permission of instructor. *R. Hoeksema.* 8:30 a.m. to noon.

ENGR W81 Mobile Robotic Systems. Mobile robotic systems are becoming more commonplace and are now handling some of the most dangerous tasks, allowing humans to stay at a safe distance. In this course, students will learn about the historical development of mobile robotic systems, including some ethical issues surrounding such systems. Students will also analyze and design the electrical, mechanical, and control aspects of robotic systems. The final project will involve the construction and implementation of a mobile robotic system. Through this hands-on experience, students will learn about the mechanical structures needed to build the system, the motors and gears to drive the system, the sensors to guide the system, the wireless modules to communicate with the system, and the control algorithms and hardware to manage the system. This course fulfills the Engineering Special Topics elective. Prerequisites: C Language Programming or equivalent, Engineering 307 & 311, Metal Shop Class, or Permission of Instructor. *Y. Kim, M. Michmerhuizen.* 8:30 a.m. to noon.

ENGR W82 Advanced Chemical Engineering Special Topics. This course addresses essential advanced topics for design. Topics build on the foundational concepts from several earlier chemical engineering courses. The course includes advanced topics from separations, heat transfer, and non-elementary kinetics. An introduction to mathematical modeling for advanced transport is considered. In addition, fundamental concepts of environmental, health, and safety issues, as well as corrosion and materials of construction for design are presented. This course fulfills the Engineering special topics requirement. Prerequisites: Engineering 330, 331, 335, and senior standing. *J. & J. VanAntwerp.* 8:30 to noon.

ENGR W83 Sustainable Energy Systems. Renewable and sustainable energy systems are providing increasingly large fractions of the energy mix worldwide. In this course, students consider fundamental engineering principles, economic factors, and Energy Return On Investment (EROI) for a wide variety of renewable and sustainable energy technologies. Special focus is given to performance and design of wind and solar systems, and data from demonstration systems at Calvin College are analyzed extensively. Several software packages that aid renewable energy system design are introduced. This course may fulfill a requirement in the Mechanical Engineering major. Prerequisite: Engineering 333 or permission of the instructor. *G. Ermer.* 8:30 a.m. to noon.

IDIS W26 South Korea: Business & Culture. Course dates: January 6 - 26. Fee: \$3,900. *R. Brouwer, C. Jen, E. Van Der Heide.* Off Campus.

IDIS W40 Engaging Development in Cambodia. Course dates: January 6-26. Fee: \$3800. *L. De Rooy, D. Dornbos Jr, P. Dykstra-Pruim.* Off campus.

IDIS W42 In Search of Clean Water in Ethiopia. Course dates: January 6-26. Fee: \$3761. *J. Bascom, D. Wunder.* Off campus.

IDIS 103 Oral Rhetoric for Engineers. *M. Steelman-Okenka.* 8:30 a.m. to noon or 2:00 p.m. to 5:00 p.m.

French

FREN W80 Interim to Cap Haitien, Haiti. Calvin students spend three weeks exploring the region around Cap Haitien and working with and teaching French to the student orphans of the EBAC Christian Academy and orphanage in Morne Rouge. EBAC houses approximately 120 children from pre-school through high school. Course work at EBAC is currently conducted in English using American home-schooling methods. However, since French is a co-official language of Haiti (along with Haitian Creole), these students must have a mastery of French in order to progress in their studies at a Haitian university or to find gainful employment beyond their immediate neighborhood. The two missionaries who run EBAC would like to strengthen the French instruction with the help of Calvin students. Calvin students are also exposed to Haitian Creole and gain basic language skills in Haitian Creole during their time in Haiti. Calvin students are housed at the Joshua House Missionary Lodge in Cap Haitien. Depending on weather, excursions are planned to the Citadel (a world heritage site) and other regional points of interest. This course may fulfill an elective in the French major and minor as well as the African Diaspora minor. Prerequisites: French 202. Course dates: January 4-22. Fee: \$2985. *J. Vos-Camy*. Off campus.

FREN 132 Intermediate French. This is an accelerated course designed for students who have completed French 131, but also open to others with previous French experience. It seeks to develop student proficiency in listening, speaking, reading, and writing through a variety of activities, and to serve as a bridge to French 202. *V. De Vries*. 8:30 a.m. to noon.

[IDIS W13 Camino de Santiago Pilgrimage \(MAY\)](#). Course dates: May 23 – June 15. Fee: \$2975. O. Sell Tjf1 0 0 11QFREN 132 Intermeino CID 3BDC q0.0000091sDVos

Geology, Geography & Environmental Studies

GEOG W40 The Geography of Terrorism. This course introduces students to terrorism from a geographic perspective. The course is formatted to provide both foundational theory and practical skills as a lecture and lab. Lectures and readings will include a variety of topics on terrorism, including investigation of definitions of terrorism, various historical and modern forms of terrorism, critical theory, issues of Christian faith in relation to terrorism, Homeland Security, and the state-of-the art of terrorism research from a geographic perspective. Laboratory work will be conducted using Geographic Information System (GIS) technology. Lab work will explore the spatial analysis and mapping of multiple forms of terrorism, vulnerability and threat analysis, border issues, privacy, international relations, and weapons of mass destruction. This course may fulfill an elective in the Geography major or minor. *J. Van Horn.* 8:30 a.m. to noon.

GEOL 153 Big Sky Geology: Montana (MAY) (4 semester hours). This course in geology is based in southwest Montana. Southwest Montana offers superb field exposures and is within driving distance of outstanding geological localities including Yellowstone National Park and Craters of the Moon National Monument. This course fulfills the physical science core requirement, and emphasizes outdoor, field-based investigation and learning. Students will be introduced to the breadth of geological study leading to responsible Christian appreciation and stewardship of Earth, including rocks and minerals, landforms and surficial processes, geological hazards, and natural resources. Field activities are an important part of each day and the field experience will complement morning lecture and lab activities. As a graded course, exams will cover lecture and text, and students will be required to complete lab assignments, construct a written field log, and choose a special field project. Not open to students who have completed Geology/Geography 120, Geology 151 or Geology 112. NOTE: This 2-week Interim in May course begins imm(nts who* nB2 792 reW* nBT/F3 12 Tf1 0 0 1 72.024 363.77 Tm0 g0 G(c)4(course)6(be)-5(g

Germanic & Asian Languages

GERM W80 German Interim Abroad. Participants engage with and improve their knowledge of the German language and culture on this study experience, which includes stays in northern Germany, Berlin,

Greek

Interdisciplinary (IDIS)

IDIS W6 0

hostels. Firsthand experience is supplemented by reading accounts written by pilgrims throughout the ages. As they walk, students interview fellow pilgrims to discover their motivations, their insights and the highlights of their journeys. Students collect and annotate a selection of these interviews as a part of their final project. In addition, each student chooses a particular focus to share with the group throughout the walk such as art, architecture, Spanish history, iconography, traveler stories, folktales and legends, religious rituals, physical challenges. No knowledge of Spanish language required. Course dates: May 23 – June 15. Fee: \$2975. *O. Selles, C. Slagter*. Off campus.

IDIS W14 Exploring Honduras from Coast to Coast. This course provides students the opportunity to dig deep and see the many sides of Honduras. Students participate with dozens of Honduran cyclists in an 8-
in the South. In 8 cities along the way, students have the opportunity to learn about the issues of education in Honduras, meet its best students and hear what the Transform Honduras movement is doing to improve education around the country. Students also spend time immersed in
spend a week living with Honduran families in a small town outside the capital and hear from
and what is being done to bring about change. This course will fulfill the CCE requirement. Course dates: January 2-24. Fee: \$2870. *K. Ver Beek*

IDIS W17 Inside the January Series. The Award-winning January Series brings world-class authorities in their fields to Calvin to speak on a range of topics. Participants in this course encounter a diversity of issues and perspectives by attending the January Series programs. Students enjoy additional opportunities to interact with the speakers during our morning class sessions. In response to the values and ideas they encounter with each speaker, students are challenged to clarify and articulate their own worldviews and to find ways to put their values into action. Course requirements include attendance at all January Series events, a short reflection paper on each presentation, an oral presentation on one of the presenters or topics, and a research paper on one of the Series speakers or topics.. *K. Saupe.* 8:30 a.m. to 11:30 a.m. and 12:15 p.m. to 1:30 p.m.

IDIS W18 Exploring German-style games. Traditional board games have been played by children (Chutes and Ladders), intellectuals (Trivial Pursuit), and at social gatherings (Taboo!) for many years. An emerging genre of games, frequently called German-style board games, has gained popularity in the United States in the past decade. These strategic games range in complexity from basic resource games, such as Settlers of Catan and Seven Wonders, to more complex games like Race for the Galaxy. These games enhance strategic development, critical thinking, spatial learning, creativity, risk assessment, conflict management, and collaboration, as well as the social skills associated with communal game play. Students in this course will learn how to play several different types of German-style games and analyze the underlying concepts essential for game play. Students will write frequent reflections and several game reviews, in which they will evaluate and critique different aspects of the gaming experience. The course will culminate with students applying their knowledge towards designing a new game or expansion of an existing game. Students will be required to purchase or provide a copy of a game from a specified list in lieu of any books. *J. Moes.* 8:30 a.m. to noon.

IDIS W19 Entrepreneurship in the Arts. Many students in the creative arts hope their craft will become more than a hobby after graduation. Often, however, these students struggle to see how they might use their artistic skills in concrete ways to sustain a fulfilling career. This course provides participants with tools to help them apply entrepreneurial models to their interests in the creative arts. Students with an interest in visual arts, architecture, poetry and creative writing, music, dance, theater, film, digital media production, and design explore their own passions and how they can be translated to successful careers. Throughout the course students engage with local creative arts institutions and talk with individuals who have successfully followed their calling into the arts. Topics that are covered include: steps to finding employment in the arts, funding sources for the arts, the legal organization of arts institutions, models for exploring business opportunities and organizations, a brief introduction to budgets and taxes, how to discern vocation in the arts, what it takes to be an entrepreneur in the arts, and the economic impact of the arts on society. The course involves field trips to local arts organizations. Through course activities and discussions, students formulate and articulate an understanding of how their and a contribution to the common good. *J. Risner, S. Smartt.* 8:30 a.m. to noon.

IDIS W20 I Long, Therefore, I Am. Probably by this point in your life you have experienced a sense of yearning or longing or unquenchable desire or ache or existential restlessness. You might yearn for a time, a place, a person, and an experience, who knows what.

never identified it as yearning or lo
Or
maybe you feel like you spend too much time dwelling on it. Whatever your situation, it is this
fundamental aspect of human existence the Germans call *sehnsucht* that this interim course is all
about. We will explore it through both film and literature. *K. Corcoran*. 8:30 a.m. to noon.

IDIS W21 Conceptions of Nature. An examination of how nature is conceptualized by various
thinkers, how their different pictures of the natural world shape responses to environmental
issues, and the way that nature functions in Christian reflections on humans and their place in the
world. The various readings in the course (Thoreau, contemporary environmental writers,

through the 21st century; theological and historical reasons why many traditions have resisted emphasis on the Holy Spirit; what the Bible teaches about the divine personhood, and inward and outward works of the Holy Spirit; how to receive guidance from, cooperate with, and be

what the Bible teaches about the healing ministry of Jesus as it relates to spiritual, emotional, relational and physical healing. Students are regularly provided with opportunities for the practical application of theological and theoretical topics via the incorporation of in-class exercises; opportunities to pray with classmates; opportunities to dialogue with, and receive personal prayer from spiritual mentors; and participation in a 2 day on-campus Dunamis Project conference (1/21/16-1/23/16), sponsored by Presbyterian Reformed Ministries International. *J. Kraak, N. Van Noord.* 2:00 p.m. to 5:00 p.m.

IDIS W24 Preparing for the Semester in Britain. This course is designed exclusively for students who will enroll in the 2016 Semester in Britain program. Because the 2016 Interim term ends after the Semester in Britain Program begins in England, we have planned this special Interim course. The aims of the course will be to introduce historical and cultural context that will prepare students for studying at York St. John University and living in Yorkshire, England. We will do that by (1) reading and discussing general English history, (2) focusing on particular interpretations of major periods and events in English history, (3) making connections between

visits to a variety of cultural sites including the demilitarized zone, important palaces, national parks, and folk villages. This course is a CCE optional course. Course dates: January 6 - 26. Fee: \$3,900.

society. This class is a cooperative learning adventure with Calvin College and Handong Global

This course equips students to explore cross-cultural understandings of progress. Students will learn how culture can facilitate or impede progress, and learn how different cultures differently understand the concept of progress. A significant portion of the class will take place off-campus at Walt Disney World in Orlando, Florida, where students will explore representations of human progress in science, technology, cross-cultural engagement, environmental protection, and global citizenship. During this visit we will reflect on some key questions: What does it take to progress towards a more sustainable future? Are we called to be global citizens or rooted in our local communities? Is progress a Western, liberal concept, or can we understand progress within our own cultural communities? How does our understanding of progress impact the way we engage across cultures? Most importantly, are there particular visions of progress that Christians should or should not endorse? Students will consider these questions individually and collectively through group discussions, experiences with partners, reflective written responses, and a final class presentation. This course may fulfill an elective in the Political Science and International Relations major. This course will fulfill the CCE requirement. Course dates: January 6-26. Fee: \$2345. *R. McBride*. Off campus.

IDIS W45 Western Films & American Culture. The cowboy and gunfighter are iconic figures in American film and television and in American culture more generally. From countless ordinary men and women to presidents like Teddy Roosevelt and Ronald Reagan and celebrities who buy ranches, for more than a century Americans have styled themselves after these iconic Western figures. Foreign observers also identify the cowboy and gunfighter as representing something essential about the American character. heritage often is used to explain its obsession with gun rights and its high levels of violence. In

IDIS W80 Eye Care in Mexico. Lack of access to corrective lenses is a major problem for people in areas that are medically underserved. In contrast, in the US thousands of glasses are discarded everyday as prescriptions change. Used glasses can, however, be put to good use when volunteer eye care professionals and assistants visit underserved areas to perform eye examinations and provide patients with glasses that most closely match their refractive error. The students in this course will spend 13 days in Tijuana, Mexico and vicinity with an ophthalmologist and an ocular physiologist, performing eye exams and dispensing glasses. The course will take place in the context of church development activities of Christian Reformed World Missions in Mexico. The goals of the course are to study ocular function and pathology, learn about medical missions and international development, participate in and critically evaluate a service-learning experience and provide glasses to an under-served population. The course will begin with three days of class on campus introducing ocular biology, training in vision screening techniques and orienting students to Mexican culture. Students will help to collect and prepare glasses for distribution and will read literature related to the course. The class will travel via San Diego, CA to Mexico. Clinics will be set up in churches where the students will interview patients, perform vision exams, serve as translators and dispense glasses under supervision of the ophthalmologist. On the final weekend students will visit the UC-San Diego medical school and participate in recreational and Calvin alumni activities in San Diego. The course is intended for pre-optometry, pre-medical, pre-physician assistant, pre-nursing, nursing and public health students. This course may fulfill an interim elective in the Nursing major. This course will fulfill the CCE requirement. Prerequisite: one course in biology. Courses in anatomy or physiology and Spanish are desirable, but not required. Course dates: January 6-25. Fee: \$1500. *L. Gerbens, J. Ubels.* Off campus.

IDIS W81 Urban Education: Poverty & Schooling. Participants in this course will develop an understanding of the challenges of urban education with a particular emphasis on the effects of poverty on learning. Several schools that serve students in the urban environment will be

own predominantly Christian society. Activities inc

-Christian society and their

encouraged to take this course.

goals with an audience; (5) tools for employing a Biblical standard of ethics on communicative goals and means; (6) conversational language strategies; and (7) masterful use of presentation

International Development Studies

The following courses will fulfill an elective in the International Development Studies major or minor.

[IDIS W41 Christianity in West Africa. Course dates: January 6-26. Fee: \\$4450. T. Kuperus, S. Sandberg. Off campus.](#)

Kinesiology

KIN W10 Costa Rica River & Rainforest Expedition. This 24-day cross-cultural wilderness expedition features rainforest mountain and river travel through remote and preserved areas of central and coastal Costa Rica. Students will gain professional instruction in rainforest backpacking, swift water rescue, white-water kayaking, and surfing; experience cultural life through seven diverse home stays and daily interaction with Tico instructors; and explore diverse ecological zones of the central mountains, rivers, and coastal marine environments of Costa Rica. The first phase consists of an eight day backpacking descent from high elevation cloud forest to low elevation tropical rainforest. During this trek, students will master backcountry living and travel skills, as well as gaining introductory knowledge regarding the diverse ecological systems. Following three nights of rainforest camping, students will enter the homestay phase. During this trek students will enjoy cultural and Spanish language immersion experiences through home stays with Costa Rican families in remote rainforest communities. Following the trek, students will trade backpacks for whitewater boats. Over the next six days, participants will gain hard shell kayak instruction and complete a 2 day Whitewater Rescue Technician course. Following the white-water phase, students will travel to the internationally renowned Corcovado National Park for an additional four days of park ranger guided coastal rainforest backpacking and ecological study. The course will conclude with three days of surf instruction, a sea turtle habitat restoration project, and general exploration of the marine environments of the magnificent Pacific coast. Along with gaining wilderness and whitewater travel skills, students will develop cross-cultural awareness as they interact on a daily level with remote Costa Rican communities and Tico instructors. This course will fulfill the CCE requirement. Course Dates: January 4- 27. Fee: \$3630. *R. Rooks, D. Vander Griend.* Off campus.

KIN 223 Movement & Health Education in the Elementary Classroom. The course provides working knowledge of the fundamentals of health and physical education, emphasizing aspects that can be integrated into the elementary classroom. Particular attention is given to the rational, curriculum resources materials, and learning activities most important to elementary students. An overarching theme within the course is to examine God's gifts of human movement and health, along with a Christian response to these gifts. The course is required for all elementary education students. Prerequisite: Education 102. *D. Bakker.* 8:30 a.m. to noon.

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PER 174 B Volleyball I. J. Kim. 1:30 p.m. to 2:45 p.m. (MWF).

PER 182 A Tennis I. J. Kim. 1:00 p.m. to 3:00 p.m. (TTH).

Fee required.

+ Class will meet off-campus.

IDIS W23 Spiritual Strength Training. J. Kraak, N. Van Noord. 2:00 p.m. to 5:00 p.m.

IDIS 150 14 DCM: Coaching Young Athletes. J. Bergsma. 8:30 a.m. to noon.

IDIS 150 15 DCM: God Rested: Why Can't You? Y. Lee. 8:30 a.m. to noon.

Mathematics

MATH W80 Mathemagic: Advanced Problem Solving. If you would like to be able to solve difficult mathematical problems quickly, this course is for you. You will learn how to use undergraduate mathematics to solve various kinds of problems speedily, often without pencil or paper! This course may fulfill an elective in the Mathematics major. Prerequisite: Mathematics 256. *C. Moseley*. 8:30 a.m. to noon.

MATH W81 Materials for K-8 Mathematics. This course examines and evaluates K-8 mathematics curricula in the context of the NCTM Principles and Standards for School Mathematics. Although the emphasis this year will be on grades K-5, curricula at all grade levels will be examined. Some of the curricula to be discussed are Everyday Mathematics, Investigations, Math TrailBlazers, Bridges, Connected Mathematics, MathScape, MathThematics, Mathematics in Context, and Singapore Math. Familiarity with a variety of K-8 mathematics curricula, with state and national mathematics grade level standards, and with state and national K-8 mathematics testing instruments is important for prospective teachers. Practice in designing exemplary mathematics lessons, making mathematics/literature connections, and solving mathematics problems are valuable skills for classroom mathematics teachers. Students are expected to complete assigned readings, to participate in and lead sample activities and lessons, and to contribute to small-group and whole-class discussions of the materials under consideration. Optional K-8 classroom observations can be arranged for the morning hours. Students should arrange their schedules so that they can spend additional hours in the Curriculum Center. This course which has been offered each interim will now only be offered during the interim in even-numbered years. This course is required for the Mathematics Elementary major, and replaces Math 110 for Mathematics Elementary minors (with permission of their mathematics advisor). Prerequisites: Mathematics 221 and 222. *J. Koop*. 8:30 a.m. to noon.

MATH 100 Mathematics in the Contemporary World. An introduction to the nature and variety of mathematics results and methods, mathematics models and their applications, and to the interaction between mathematics and culture. Not open to mathematics and natural science majors. This course fulfills core mathematics requirement. *J. Ferdinands*. 8:30 a.m. to noon.

MATH 170 Elementary Functions and Calculus. This course is a continuation of Mathematics 169. Topics include applications of derivatives, integrals, the Fundamental Theorem of Calculus, and applications of integrals. Prerequisite: Mathematics 169. *B. Dekker*. 8:30 a.m. to noon and 2:00 p.m. to 5:00 p.m.

[**IDIS 150 16 DCM: Mathematics & Beauty.** *M. Bolt*. 8:30 a.m. to noon.](#)

Music

MUSC W60 Choral Music of Spain and Portugal (MAY). Members of the Capella participate in worship services, present concerts, participate in workshops in the area of choral music in various cities in Spain and Portugal. The course is taught by the instructor through performance and in workshop setting with composers of choral music in Spain. The instructor also leads group discussions with the ensemble and facilitates interaction with local musicians, church members and local college students. Students experience worship in a cross-cultural context and communion with other members of the Body of Christ through fellowship and song. The choir experiences collaboration with other local choirs via joint concerts in various cities. The course will begin with intensive rehearsals and lectures on campus, followed by a twelve-day trip to Spain and Portugal. The sessions prior to the trip will include talks on the rich heritage of early Spanish choral music (which the choir would have been learning and performing throughout the regular academic year), its impact on European choral music and onto the New World, and the current vibrant choral life in Spain and Portugal, along with a secondary focus on choral music with texts written by Spanish luminaries such as Ignatius of Loyola, Teresa of Avila and others. This course will fulfill the CCE requirement. Prerequisite: Fall or spring enrollment in MUSC 141. Course dates: May 25- June 5. Fee: \$4395. *P. Shangkuan, L. Hoisington.* Off campus.

MUSC W80 Leading Contemporary Worship. In recent years, praise bands (worship teams) have become one of the most common church music ensembles. This course gives students instruction and hands-on experience in all aspects of leading praise bands and contemporary worship music: fitting a praise band into the larger context of a church's worship, assembling a team of musicians, finding quality repertoire, planning worship services, arranging music, rehearsing a band, and leading worship. The course will include related topics such as sound systems, modernizing hymns, global and ethnic music styles, blended worship styles, and evaluating worship. This course may fulfill an elective in the Music program. Prerequisite: Since a primary component of the course will be hands-on experience in rehearsing and leading worship, each student must have at least one area of musical performance (piano, guitar, bass, drums, voice, other instruments, etc.) equivalent to accomplished high school music-making, or gain the approval of the instructor. *G. Scheer.* 2:00 p.m. to 5:00 p.m.

MUSC W81 Adventures in Chamber Music. After hours of practicing alone in a small room and rehearsing as a small cog in a large ensemble, musicians have fun hanging out with friends and playing chamber music! This course will give students the opportunity to explore many different aspects of the chamber music experience, including performance (rehearsing, coaching and performing), entrepreneurship (preparing promotional materials and reaching an audience), community (time management and problem solving), and traditions (repertoire and performance practice). Readings w

The course will include a trip to Cleveland, where students will hear a performance as well as interact with the performers. The class is open to students who play string, woodwind, brass, percussion or keyboard instruments and are skilled enough to successfully perform in the final recital. This course may fulfill an elective in the Music major. Prerequisite: Permission of the instructor. *Fee: \$100. D. Reimer.* 8:30 a.m. to noon.

Nursing

Philosophy

PHIL W10 Moral Expectation in Film. This course focuses on the concept of moral expectation, how it differs from moral obligation, and how it relates to moral responsibility, supererogation, and collective responsibility. About eight motion pictures will be shown illustrating these moral concepts. These concepts will also be examined in the context of the Christian life. Learning objectives include knowledge of these moral concepts and the ability to analyze and identify their presence in the plots of motion pictures and, by extension, how they function in the lives of human moral agents. *G. Mellema.* 8:30 a.m. to noon.

PHIL W11 Peaceable Kingdom. Though stewardship of the animal kingdom is one of the primary responsibilities accorded to human beings in the Christian creation narrative, the question of how best to respect the creatures under our care is one that Christians too often neglect to ask. This omission is unfortunate, given the mounting evidence of fallenness in the social and commercial practices that presently govern our relationships to animals. While large-scale animal farming has increased consumer convenience, this convenience comes at a cost, and not just to animals. Our current food system is also proving to have negative, if unintended, consequences for the environment, local and global commerce and agriculture in both rural and urban communities, and public health. In view of these considerations, the purpose of this course is two-fold: first, to gain insight into the problem through a survey of the theological, moral, environmental, and socio-economic issues surrounding the treatment of animals and the allocation of natural and human resources by our current food system and other industries that use animals; and second, to take the initial steps toward becoming agents of renewal by discerning an array of concrete approaches to addressing these problems (e.g., legislating for less intensive, more sustainable food systems, community supported agriculture, cooking and eating

IDIS W21 Conceptions of Nature. Fee: \$275. R. Groenhout. 2:00 p.m. to 5:00 p.m.

IDIS 150 20 DCM: The New Urbanism. L. Hardy. 2:00 p.m. to 5:00 p.m.

Physics

CANCELLED PHYS W10 The Big Bang Theory. This course will be a scientific and understanding of the physical universe, from ancient history to the present. Important discoveries will be highlighted along the way, with fundamental scientific concepts introduced as needed in order to provide a clear picture explaining the popularity of the big bang theory. In addition, students will explore the varying Christian perspectives on the big bang theory, seeking to understand some of the conflicting theological legitimacy. This is not a survey introduction to astronomy but will cover topics pertinent to understanding the big bang theory as a scientific model. It is designed to be accessible to anyone with a high school level education in science and a firm grasp of algebra. *J. Smolinski.* 2:00 p.m. to 5:00 p.m.

[IDIS W85 Biophysics.](#) *P. Harper.* 2:00 p.m. to 5:00 p.m.

[IDIS 150 36 DCM: The Big Bang Theory.](#) *J. Smolinski.* 2:00 p.m. to 5:00 p.m.

Political Science

IDIS W44 Disney, Culture, & Progress. Course dates: January 6-26. Fee: \$2345. *R. McBride.* Off campus.

IDIS W46 The Art & Science of Legal Practice. *E. Jones, R. Vogelzang, J. Westra.* 2:00 p.m. to 5:00 p.m.

Psychology

PSYC W10 History of Psychology & Religion in Europe. This off-campus, European, multidisciplinary course will engage sites, museums, archives, and institutes of those individuals who created and contributed to major areas of psychology. The best way to understand these famous scientists and their contributions to the broad discipline of psychology is to see where they lived, breathed and worked, thereby permitting a greater appreciation of how their contexts

to 1) study biblical texts as reflections of a particular moment in human culture; 2) look at and interpret various biblical texts for themselves; 3) think about how various biblical texts might apply today. This course may fulfill an elective in the religion major. *R. Whitekettle*. 8:30 a.m. to noon.

REL W80 The Book of Revelation. No writing in the Bible has been subject to a wider range of interpretations than the Book of Revelation. Protestant fundamentalists claim to find in Revelation coded predictions about events in the modern world. But many Christian churches, including those in the Reformed tradition, recognize the highly symbolic nature

considering its relevance today. This course begins by using a two-part documentary film on Revelation that devotes significant attention to the variety of ways in which the book has been

used in secular culture through the ages. Most class sessions will be devoted to working carefully through

Science Education Studies

Sociology & Social Work

SOC W40 Hollywood - A Sociological Perspective. This course provides students with an opportunity to analyze Hollywood using their sociological imagination. Recognizing that media is a primary source of socialization, as well as an instrumental tool for teaching and inculcation, it is important to academically and critically consider the central source of media production: Los Angeles, California. Students will learn about the frontstage and backstage of Hollywood which involves: 1) Becoming media literate by gaining a conscientious and deeper understanding of how media is made, how it works, and how it influences people. 2) Learning fundamentals of media and Hollywood history. 3) Developing a critical lens by learning how to ask key questions that breakdown the frontstage and reveal the backstage, and 4) Applying that critical lens to various topics such as media control, demographics (e.g. race, gender), celebrity, and faith. Days 1 and 2 of interim will be spent on campus learning in a classroom environment. Travel to Los Angeles occurs days 3 through 13 involving touring significant landmarks, visiting media production sites, and interviewing industry insiders. Students will also spend time in the lesser-known areas learning about the people and institutions whose lives may not reflect the glamour and glitz associated with Hollywood. On days 14 and 15 students will present their group projects demonstrating the most salient aspects of learning from the Interim. This course may fulfill an elective in the Sociology major. Course dates: January 6-26. Fee: \$2,365. *E. Marr.* Off campus.

SOC W10 Anthropology, Anime, and Globalization. The distinctly Japanese entertainment industry of anime is a worldwide phenomenon. The interim considers anime as a culturally specific product consumed in disparate cultural contexts. 1 47 405.17 Tmns 612 792 reW* nBT/F3QblpppoETQqt

CANCELLED ~~IDIS 150 25 DCM: Let's Talk about Health. K. Alford. 8:30 a.m. to noon.~~

IDIS 150 30 DCM: Race, Class, Gender and Religion in Contemporary U.S. Immigration. L. Schwander. 2:00 p.m. to 5:00 p.m.

IDIS 150 35 DCM: Grand Rapids: The Interim. Fee: \$200. J. Kuilema. 2:00 p.m. to 5:00 p.m.

Speech Pathology & Audiology

SPAUD 343 Principles of Communication Neuroscience. This course provides a thorough understanding of nervous system anatomy and physiology as it relates to speech, language, and hearing. Principles of systems theory, neuromuscular control, somatosensory processing, and complex cognitive function are included. Select communication disorders are discussed to