**Modern America: The Art and Science of Baseball**

Greg Nobles

TR 3-4:30

Baseball is much more than a game played on a diamond. Since the second half of the nineteenth century, it has occupied a central place in American culture as a seemingly unending source of legend, memory, and myth. It has also generated more scientific and statistical analysis than any other sport anywhere. This course explores the place of baseball in the arts—embracing painting, poetry, fiction, film, and song—and in the social sciences—examining at such issues as urban/rural society, economic impact, and race. Along the way, the course will also look into “inside baseball,” the statistics and strategy that keep the game a lively topic of discussion, even passion, when the actual season is over and the “Hot Stove League” begins. On the whole, the course addresses one major topic: What makes baseball the best game ever invented?

**Buzz, GP Burdell, Old Gold: An Ethnographic Study of GT**

Cara Appel-Silbaugh

R 1:35-4:25

What is culture? What do you know about the cultures you interact with daily at Tech? In this interactive and engaging course students will be challenged to engage in an ethnographic study of Georgia Tech. Students will form small groups to conduct observations, interviews, and document analysis to understand a particular subculture of the Institute. The class as a whole will then analyze the data collected to look for specific themes. This course will expose students to a different type of research methodology and methods. By the end of the semester students will gain an increased, in depth knowledge about their campus community.

**Walking**

T. Hugh Crawford

TR 9:30

As parents know well, walking is the first major step an infant takes in that whole complicated process of growing up, yet after those first tentative steps are transformed into a confident stride, most people spend little time reflecting on just how walking functions (or does not function) in our culture: how we mark out and even make the world we live in through our own wayfaring. This seminar will take walking as its topic, looking at poetry, novels, and film, but also environmental writing, history, archaeology, sociology, biology, geography, cartography and political science—in other words, walking will become our university. We will take a broad range of perspectives including questions of accessibility and mobility, the practices of hiking, and walking in the city. Projects will be drawn from the material studied, personal experiences on the ground (as it were), and will be wildly inventive.

**Great Achievements and Grand Challenges**

Joe Hughes

MW 3-4:30

At the start of this century a competition was held to name the Greatest Engineering Achievements of the 20th Century. A few years later a similar effort identified fourteen Grand Challenges for this century that are “both achievable and sustainable to help people and the planet thrive.” While these past accomplishments and current challenges (including environmentally-friendly energy sources, urban infrastructure, better medicines, and secure cyberspace) involve technological advances, the contribution of science, computing, public policy, and politics are equally important to success of these efforts. This course provides an opportunity for student of ALL MAJORS to explore the interaction of technology and society, including socially-responsible engineering; implications of technological dependence; political, economic, and social factors; risks and ethical decision making; and limitations of technology. Course readings, assignments, and projects will allow students to explore the social context of engineering and solutions for our world’s grand challenges in relation to their individual majors and interests.

**Working Outside Your Comfort Zone: Designing With People**

Sabir Khan

TR 12-1:30

A workshop/seminar that explores community engagement, participatory process, humanitarian design, social entrepreneurship, and "service learning". The class will analyze specific examples of such projects as well as theoretical issues to grapple with the myriad challenges -- political, personal, social, professional, etc. -- that working with and for "others" raises. Each student will develop preparatory material -- a dossier of background information, larger questions, suggested practices, etc -- for students who are already involved in or wish to take on such projects.
**A New Job Every Day: Managing the Built Environment**

This course will explore facility management—from understanding building users to planning, design, construction, occupancy, operations, management and re-use—each day in the world of a facility management professional is different. The course will focus on two primary issues after a broad overview of this multi-disciplinary field which requires strong skills in many fields. Students will delve into research, discussions and presentations to explain the value of sustainable buildings, from a materials and use perspective, as well as from the value and financial management perspective.

**Cap: 20 HP**

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**CASE studies: Connecting Academic and Societal Experience**

The purpose of these courses is to create opportunities for Georgia Tech undergraduates to develop meaningful research and service relationships with partners external to Georgia Tech, whether in Atlanta or elsewhere—preferably non-profit, community-based organizations, that work, as Georgia Tech itself aspires to do, to improve the human condition.

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**PUBP #### HPC *Near Peer Mentoring: An experience in Urban Education**

This course challenges students to examine how race, poverty, gender, and other socioeconomic dynamics have shaped the educational opportunities available in historically segregated and economically distressed urban communities. It further invites students to inquire how these social circumstances have influenced the possibilities that young people from these communities imagine for their futures. We will focus on two Atlanta single gender high schools in Atlanta’s near Westside communities: Coretta Scott King Young Women’s Leadership Academy for girls and BEST Academy for boys. Through direct service and intentional relationships with the high schools, Tech students will seek to help H.S. students (1) prepare for getting into college and being successful there and (2) value higher education as a means of improving the quality of their lives.

**Cap: 20 HP**

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**EAS 2803 HP *Sunlight to Shadow: Trees and the City**

When you think of a city, what’s the first thing that comes to mind? Probably not “forest,” but many urban problems—such as smog and elevated summer temperatures—could be alleviated if people would get into that mindset. Trees minimize the heat island effect, halt soil erosion, absorb air pollutants, and harbor native birds. Atlanta’s numerous fruit trees provide food that can be distributed to the city’s needy. In partnership with Trees Atlanta, this course will explore these aspects—and more—of what our urban forest does for our extended community and what we can do to help both thrive. Scientific, economic, social, and environmental aspects will be explored.

**Cap: 20 HP**

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**CRP#### HPC *Urban Studies: Seeking Social Justice and Sustainability in the City**

This course is an applied and interactive overview of urban planning theory, and how social and economic differences impact the geography of the city. We will focus on histories of urban form and social theory as a framework for city planning. Planning-specific problems of study include community development, inequitable development, housing, sprawl, and segregation from a critical race perspective. Throughout the semester we will apply theories of culture, consumption and inequality to urban spaces. The last part of the course will evaluate various strategies for sustainable cities, and social justice. The readings are a guide to understanding local communities, and all assignments require application of theories to real life problems in neighborhoods of students’ choosing.

**Cap: 20 HP**

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*Credit availability: *Honors Program special topic req., *Humanities req., ^Social Science req., ??tentative