# Major Exploration for the Truly Undecided Student

Presenters: Sara Radoff, Kresge College Advisor Denise Booth, College Nine Advisor

Student Research Assistants: Ulises Hernandez and Tyler Simowitz

# Today's Goals

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- What? Learn about theories and research related to major exploration and declaration.
- **So What?** Consider the literature in relation to a UCSC context.
- Now What? Begin to identify and share existing and potential best practices for UCSC.



## **Session Overview**

- Define "undecided".
- What influences major selection?
- Decision-making.
- Best Practices in major exploration.
- Theoretical foundations for advising and program development.
- Unpacking the "Major Exploration for the Truly Undecided".

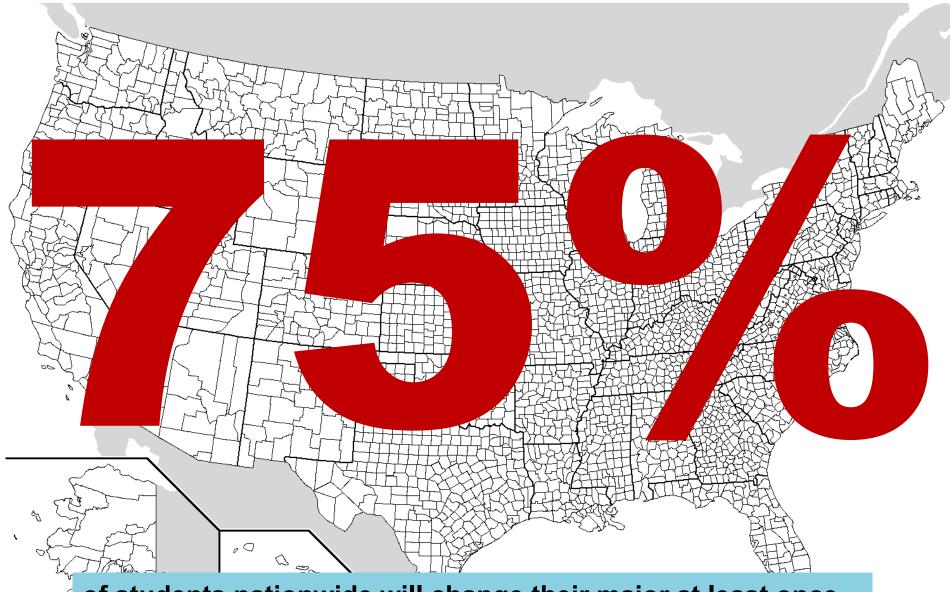
## Think like a frosh!

• What was your proposed major as a freshman?

How did you pick your major?

# Who is truly undecided?





of students nationwide will change their major at least once. (Gordon, 2007; Steele & McDonald, 2008).

# 43.3%

of UCSC transfer students will change their major.

# 80%

of UCSC students will graduate with a different major than the one they proposed/declared as freshman.

SITY OF CALL

NTA CRUZ

(IRPS, 2004)

# Why does major exploration matter?

Major changers have a 70-85% graduation rate, in comparison to a graduation rate of 45-50% for those who retain original major (Murphy, 2000; Micceri, 2002; as cited in Gordon, 2007, p. 87)

Students deserve an opportunity to identify and pursue educational goals that are meaningful to them.

# 

# **Reasons for**

### **Being Undecided**

- Lack of concrete, realistic information.
- Lack of independence in decision-making.
- Lack of knowledge of the decision-making.
- Multiplicity of interests... learning lovers.
- Lack of interests or the ability to articulate interests.
- Lack of ability or knowledge of abilities.
- Lack of knowledge about educational and occupational relationships.
- Lack of desire to attend college (Gordon, 2007, p. 143)
- Perceived cultural barriers to certain careers: race, gender, etc. (Swanson, Daniels, & Tokar, 1996).
- Institutional pressures (Cuseo, 2005).
- Developmentally not ready to make decision (Cuseo, 2005).

### Influences on Major Selection

- Teacher, counselor, adviser
  - Family
- Friends
- Media
- Social and economic pressures
- Perceived career barriers
  - Cultural values

First generation college students are <u>not</u> more prone to major indecision (Pearson & Dellman-<sup>Ĵenkins,</sup> 1999)

### Factors That Further Complicate a Decision for Transfer Students

# University policies (Cuseo, 2005; Gordon, 2007; Lewallen, 1993)

"...the University of California system now expects all two-year college graduates to complete 60 transferable units, including all areas of its general education curriculum and all pre-major courses prior to transfer (e.g., business, engineering, and health sciences), this policy essentially forces full-time, continuously enrolled, community college students to select a major during the *first term* of college—if they expect to transfer to a four-year university in a reasonable amount of time. The ugly irony associated with this policy is that it exerts the most academic decision-making pressure on students in community colleges, which enroll the highest percentage of academically underprepared and economically disadvantaged students" (Cuseo, 2005, p. 7).

# Factors That Further Complicate a Decision

- Some decided students may be at greater risk of attrition because they have made a decision that is premature, unrealistic, uninformed, or grounded in extrinsic factors (Cuseo, 2005, p. 3).
- **Retention goals** (Cuseo, 2005; Gordon, 2007; Lewallen, 1993)
- Many studies suggest that undecided students are at greater risk of attrition (Gordon, 2007).
- Lewallen (1993) found in a national sample of 18,000 first year students that there was no predictive correlation between retention and whether students were decided on their major or not (p. 1).

# Student Perspectives on UCSC Factors

- Planning to meet the major declaration deadline
- Major qualification policies
- Classes only offered some quarters
- Impacted majors: getting into classes
- Large classes with lack of connections with professors
- Limited tutoring opportunities
- Placement exams

### Freshman and Transfer

### Comparison

- Frosh must declare major by Spring of sophomore year.
- Programming for major declaration is developed for frosh.
- Frosh have had opportunity to make connections and a life at the university early on.

Transfers must select major by second quarter of enrollment.

Transfer students tend to be more knowledgeable in their academic, vocational, personal skills.

 Transfers students may have no background in major related courses.

Yet some transfer students may enter a four-year university at a lower developmental stage than other students attending the university for multiple years

# Choosing a major can be a tough decision!

- Think about the last time you made a difficult decision.
- What were some of the specific strategies that you used? What resources did you draw from?



## **Decision-Making**

- Complex process that encompasses: personal, social, economic, cultural influences, individual's past experiences, decision-making style (Gordon, 2007, p. 171)
- Involves ambiguity and doubt (Galotti, 1999)
- Fluid and evolving over time (Smart, et al, 2000)
- Different people have different decision-making styles: rational, intuitive, dialog, critical thinking (Bertram, 1996; Mau, 1997)

#### FROM THE WORKSHOP

### Seriously, guys, let's get real. Why am I undecided?

- I'm not sure of my strengths.
- I'm not sure what's available.
- I LOVE everything and can't decide!
- I'm not even sure about what I want to do careerwise.
- It feels scary to choose just one path.
- I'm worried about disappointing my family.





ACTIVITY #1



### **Best Practices in Major Exploration**

- Highly effective and specially trained advisers work with first-year students.
- Ongoing relationship with caring and supportive adviser who knows students interests, abilities, needs and values and can provide individualized interpretations and feedback. College should initiate supportive action.
- Provide incentives for first-year students to meet regularly with advisers to clarify and discuss long-term educational plans

(Brown, et al, 2003; Cuseo, 2007; Gordon, 2007)

### **Best Practices in Major Exploration**

- Programming with an organized approach to exploration and decision-making: models and workbooks
- Collaboration and integration between Academic Advising and Career Advising
- Infuse academic and career planning into the curriculum.
- Ongoing program evaluation and development.

(Brown, et al, 2003; Cuseo, 2007; Gordon, 2007)

### **Best Practices: Adviser Roles**

- Establish a supportive and caring environment.
- Identify where student is at in the decision-making process and help student identify and articulate why he or she is undecided.
- Understand students' purpose and goals in coming to college.
- Help organize a plan for the exploration process and gathering information related to personal, academic and career dimensions.
- Support student while he or she makes a decision.
- Help student initiate an action plan
- Encourage follow-up contact

# MEET THE STUDENTS WHERE THEY ARE.

# Praxis: Grounding our Practice with Theory

- Developmental
- Constructivist
- Career Decision Theory
- Holland's Theory of Personalities and Work Environments
- Strength-based Approaches
- Multicultural Education

# Framing the Theories

- Fundamental differences in theories:
  - Objective, rational facts about reality and people, static descriptors.
  - Subjective, meaning-making through experience, people evolve and identities are fluid.
- Need a framework that is responsive to diverse student body.
- Major exploration is a process.

# **Guiding Theories: Developmental**

**DUALISM** Absolutes. Black and white. "*Biology good, Environmental Studies bad.*"

**MULTIPLICITY** Uncertainty exists. Everyone has their own opinion. "Prove it."

RELATIVISM Knowledge and values contextualized and relative. Complexity and ambiguity are expected. These are our graduates!

**COMMITMENT** Integrate knowledge learned from others with personal experience and reflection

William Perry's Intellectual Scheme (1999):

## Common Developmental Positions of Freshmen

- See the world in dualistic terms when they enter, and finish their year in either a multiplicity or and emerging relativistic position
  - Tend to lack autonomous decision-making skills.
  - Looks to those in authority positions for the right answers
  - May experience difficulties taking responsibility for a final decision.
- Preference for simplicity

# MEET THE STUDENTS WHERE THEY ARE.

#### FROM THE WORKSHOP

Activity #2 - Part One: Quick Self-Assessment Take a couple minutes to assess what you feel are your strengths and weaknesses. These may be mostly academic but feel free to include other things such as good people skills, detail oriented, enjoy routine, etc.

#### Strengths:

#### Weaknesses:

Tip: Weaknesses aren't a bad thing! They can tell as much about what you might enjoy doing as one of your strengths!



# ACTIVITY #2



#### FROM THE WORKSHOP

#### Activity #2 - Part Two: Quick Exploration

Below is a list of all the majors on campus. Read down the list and circle any that spark an interest in you. Don't overthink a selection, just circle it and you will be able to go back and research it more!

Anthropology Applied Physics  $\mathbf{Art}$ Biochemistry and Molecular Biology Bioengineering Bioinformatics Biology **Business Management Economics** Chemistry Classical Studies Cognitive Science **Community Studies** Computer Engineering Computer Science Computer Science: Computer Game Design Earth Sciences Economics Electrical Engineering **Environmental Studies** Feminist Studies Film and Digital Media Ecology and Evolution German Studies Global Economics History History of Art and Visual Culture Human Biology

Italian Studies Jewish Studies Language Studies Latin American and Latino Studies Legal Studies Linguistics Literature Marine Biology Mathematics Molecular, Cell, and Developmental Biology Music Network and Digital Technology Neuroscience Philosophy CIRCLE Physics Physics (Astrophysics) SOMETHING Physics Education Plant Sciences Politics Psychology **Robotics Engineering** Sociology Spanish Studies Technology and Information Management Theater Arts

ACTIVITY #2

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#### Not ready to pick out specific majors? Try circling a cluster that encompasses some general interests:

**Business and Economics** Education Environmental Sciences Human Psychology, Culture, and Society Engineering and Computing Languages, Literature, and Communication Liberal Arts and Area Studies Life and Health Sciences Physical Sciences and Math Visual and Performing Arts and Media

#### **FROM THE WORKSHOP**

#### SOME MAJORS BASED ON CLUSTERS

#### **BUSINESS AND ECONOMICS**

ECONOMICS GLOBAL ECONOMICS BUSINESS MANAGEMENT ECONOMICS LALS/ECONOMICS ENVIRONMENTAL STUDIES/ECONOMICS

#### **EDUCATION**

THE MINOR! ANY MAJOR FOR K-6 HIGH SCHOOL/JUNIOR HIGH... - BIOLOGY EDUCATION - EARTH SCIENCE EDUCATION

- PHYSICS

- MATH EDUCATION

#### ENGINEERING AND COMPUTING

BIOENGINEERING, BIOINFORMATICS, COMPUTER ENGINEERING, COMPUTER SCIENCE, GAME DESIGN, ELECTICAL ENGINEERING, ROBOTICS, TEHCNOLOGY INFORMATION MANAGEMENT

#### **ENVIRONMENTAL SCIENCES**

ENVIRONMENTAL STUDIES/BIOLOGY ENVIRONMENTAL STUDIES/EARTH SCIENCES ENVIRONMENTAL STUDIES/ECONOMICS ENCIRONMENTAL STUDIES MARINE BIOLOGY PLANT SCIENCES HUMAN PSYCHOLOGY, CULTURE AND SOCIETY ANTHROPOLOGY, COGNITIVE SCIENCE, COMMUNITY STUDIES, LATIN AMERICAN LATINO STUDIES, LEGAL STUDIES, POLITICS, PSYCHOLOGY, SOCIOLOGY

ACTIVITY #2

LANGUAGES, LITERATURE, AND COMMUNICATION CLASSICAL STUDIES, GERMAN SUTIDES, ITALIAN STUDIES, JEWISH STUDIES, LANGUAGE STUDIES, LATIN AMERICAN AND LATINO STUDIES, LINGUISTICS, LITERATURE, SPANISH STUDIES

#### LIBERAL ARTS AND AREA STUDIES

CLASSICAL STUDIES, GERMAN SUTIDES, HISTORY, JEWISH STUDIES, ITALIAN STUDIES, HISTORY OF ART AND VISUAL CULTURE, LATIN AMERICAN AND LATINO STUDIES, PHILOSOPHY

#### LIFE AND HEALTH SCIENCES

BIOLOGY, COGNITIVE SCIENCE, ECOLOGY AND EVOLUTION, HUMAN BIOLOGY, MARINE BIOLOGY, MCD BIOLOGY, NEUROSCIENCE, PLANT SCIENCES

> PHYSICAL SCIENCES AND MATH CHEMISTRY, BIOCHEMISTRY AND MOLECULAR BIOLOGY, EARTH SCIENCES, MATHEMATICS, PHYSICS

VISUAL AND PERFORMING ARTS ART, FILM AND DIGITAL MEDIA, HISTORY OF ART AND VISUAL CULTURE, MUSIC, THEATHER ARTS

## Guiding Theories: Constructivist

- Creating meaning through activities and purposeful reflection (Peavy, 1995)
- Emphasis is in relationship and process. Students learn about self holistically within a developmental framework (Brott, 2004)
- Views indecision as a sign of identity transformation in progress (Savickas, 1995)
- Subjective, narrative, storied approach
- Qualitative techniques can compliment more traditional quantitative measures such as Myers-Briggs or Holland Codes to generate the student's story.

### Guiding Theories: Career Decision Theory

Four steps in career decision-making:

- Exploration
- Crystallization
- Choice
- Clarification

David Tiedeman & R. O'Hara (1963)

## Guiding Theories: Holland's Theory of Personality and Work Environments

#### Categorizes people in six interest types:

- Realistic
- Investigative
- Artistic
- Social
- Enterprising
- Conventional

Organizes work environment into six models with the same names.

Realistic people choose a realistic working environment, etc.

Almost 50% of students ultimately majored in a discipline different from the Holland code identified in their freshman year (Smart, Feldman & Ethington, 2000).

(Holland, 1997)

# Guiding Theories: Strength-Based Approaches

- Counseling model built on strengths, talents and motivations (Smith, 2006)
- Focus on possibilities rather than problems (Schreiner & Anderson, 2005)
- Student feel understood and heard (Schreiner & Anderson, 2005)
- Appreciative advising (Bloom, Hutson & He, 2008)

## Guiding Theories: Multicultural Education

- Most research on major decision-making has not considered cross-cultural differences.
- Advisers should draw from culturally responsive approaches that explore cultural strengths, assets and values.
- Strengths and decision-making styles are performed differently across cultures.
- Listening, observing, and critical reflection are central to advising work.

(Nieto & Bode, 2008)

# We Just Want You To Be Happy...



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#### **Dimensions of Major Exploration**

#### Choosing a major is a process of...

#### **Personal Exploration**

Values, skills, interests, hobbies, identity, family, past experiences, hopes and dreams

#### **Academic Exploration**

Course requirements, role of GE in finding a good major, knowing the skills that lead to success in major, how you learn the best, how subject is taught.

#### **Career Exploration**

Knowing job market, understand the nature of the career, realistic idea of what career is about, internships, shadowing.

# Take Aways

- Undecided majors are a diverse group and undecided for diverse reasons.
- Frosh and a lot of transfers go through a major exploration process.
- Undecided students cut across all identities and social groups: class, race, first generation.
- Choosing a major is a process that we all facilitate.
- Different theoretical lenses will lead to different tactics.

# Why does major exploration matter?

Major changers have a 70-85% graduation rate, in comparison to a graduation rate of 45-50% for those who retain original major (Murphy, 2000; Micceri, 2002; as cited in Gordon, 2007, p. 87)

Students deserve an opportunity to identify and pursue educational goals that are meaningful to them.

## What's Next?

Research:

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- What are students' perspective on major exploration and declaration at UCSC?
- What resources and strategies do students find helpful in their decision-making?
- What do they recommend that advisers develop?
- Are you interested in continuing this conversation?
  - How can we collaborate as a campus to strengthen our major exploration program?
  - What are you already doing to help students explore majors?

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What ideas do you have to develop our approach to major exploration?

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