

## Career Course Literature: A 45-year Review

Reardon, R. C., Peace, C. S., & Burbrink, I. E. (2021). College career courses and instructional research from 1976 through 2019. *Scholarship of teaching & learning in psychology*. Advance online publication. <u>Https://psycnet.Apa.Org/record/2021-31509-001</u>

## The Literature Review is in Two Parts

**Part One**: 62 articles on academic disciplines, course development, management, main elements, international settings

Part Two: 116 studies on course effectiveness, including outputs and outcomes

## Part One: 5 Topics

- 1. History & Prevalence: First study reported by Hoppock in 1932; about 40% of large schools offer career courses
- Disciplines: Psychology leads but others include business, pharmacy, chemistry, engineering, biology, sociology, political science, and others

## Part One (cont.)

- **3.** International: Growing interest in Taiwan, South Korea, Canada, Sweden, China, Finland and in varied disciplines
- Main Elements: Written goals, individualized test reports, risks/rewards of occupations, models and mentors, support networking
- 5. Management: Transportability of courses, structured vs. unstructured approaches, career center connection, variable credits, sample syllabi

# Part Two

#### Outputs:

- Assessments measure changes in career decidedness, vocational identity, career maturity, career thoughts, etc.
- 93% of studies reported positive gains
- · Annual rate of studies highest in last five years

# Part Two (cont.)

Outcomes:

- Course satisfaction, graduation rate, college retention, deciding on a major, final GPA
- 95% of studies reported positive gains in outcomes
- · Annual rate of studies highest in last five years

#### Arizona State University's Doctorate of

- Education (EdD) Leadership and Innovation
   Education leaders working to implement
- change in their local place of practice
  Three year program, offered through inperson and online cohorts
- Scholarly practitioners as a result

AS

Students assigned to conduct outreach in second semester



2005 report: "Rising Above the Gathering Storm: Energizing and Employing America for a Brighter Economic Future"
National Academy of Science, the National Academy of Engineering, and the Institute of Medicine



### **Context of Innovation**

- Largest academic unit within ASU's largest college (The College of Liberal Arts & Sciences)
- 10 majors spanning topics in biological sciences, microbiology, and molecular biosciences and biotechnology

• 76% increase in enrollment from 2017 (2,628) to 2018 (4,624)

What resources are available for career preparation?

Career and Professional Development Services (CPDS)

Academic Advisors

Faculty





### **Research Questions**

RQ 1: How and to what extent did a life science career development course affect students' abilities to
engage in goal selection related to career exploration and planning;
identify appropriate academic major, occupational information, and/or employment opportunities in the life sciences in relation to personal characteristics;
formulate action plans and strategies for implementing life/career goals;
conduct problem solving efforts related to career

- exploration; and
- engage in self-appraisal with respect to career exploration and planning.

# Research Questions

RQ 2: How and to what extent did a life science career development course affect students'

- perception of possible professional and career goals and opportunities;
- knowledge about employment-
- seeking skills; and readiness for career problem-solving and decision making.

# **Theoretical Perspectives**



- John Holland's theory of vocational personalities and their connections to work environments (RIASEC)
- Sampson, Peterson, Reardon and Lenz's cognitive information processing career decision theory (CIP) and its CASVE cycle
   Bandura's self-efficacy theory.



#### Method

- Medium: online course
- Duration: 7.5 weeks, spring 2020 term
   Participants: non-first-year students in
   SOLS; Of the 34 students enrolled in
   the course, 29 participated in the
   Career State Inventory survey, 12
   participated in the retrospective pre and post-intervention surveys, 8
   participated in the interview, and 8
   allowed their final essays to be
   reviewed for this study.
- Role of Researcher: course designer, instructor; lead researcher and analyst
   Research Design: multistrand mixed method action research (MMAR)







# **Quantitative Results - Surveys**

Retrospective pre- and post-test surveys

Means and Standard Deviations for Five Occupation Search Constructs

Construct	Retrospective, Pre-Interve	ntion Post-Intervention		
Goal Selection	2.32 (1.32)	4.23 (1.28)		
Occupational Infor	mation $2.67(1.10)$	4.50 (1.01)		
Problem Solving	2.92 (1.11)	4.43 (1.21)		
Planning	2.57 (1.03)	4.53 (0.98)		
Self-Appraisal	-• 2.68 (0.89)	4.50 (1.06)		
*—Note: Standard deviations are in parentheses and $n = 12$ .				

Quantitative Results - Surveys				
<ul> <li>Retrospective pre- and</li> </ul>	post-test surv	reys		
Means and Standard Deviations fo	or Knowledge of C	areer Exploration		
and Development Tasks and Self-E	Efficacy for Search	ing for Alternative		
Careers				
Construct Retrospective,	Pre-Intervention	Post-Intervention		
Knowledge of Career Devel.	2.63 (1.06)	4.73 (0.79)		
Perception of Possible Opps.	2.48 (0.80)	4.70 (0.94)*		
*—Note: Standard deviations are in parentheses and $n = 12$ .				

Quantitative Results – Career State Inventory				
Career State In	nventory			
Means and Standard Deviations for Three Constructs from the Career State Inventory*				
CSI Construct	Pre-Intervention Scores	Post-Intervention Scores		
Occupational Certainty	2.45 (0.74)	2.17 (0.66)		
Occupational Satisfaction				
Occupational Clarity		1.14 (0.83)		
*-Note: Lower scores are better scores. SDs are in parentheses.				
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### **Interviews & Essays**

- Eight (8) students participated in the interviews; eight (8) provided
- permission for their final essays to be used for this study Straus and Corbin's (1998) constant comparative method and coding methods explained in Saldaña (2016)
  - After initial coding, large categories of codes were created, which were then aggregated into themes and subthemes.
     The major themes derived from these interviews & essays were
- Balancing tensions relating to career choice Broadening perception of career options
- Developing career exploration and planning skills

# Implications for practice

- Prioritizing career development in higher education strategic planning
- Increased dialogue surrounding career development in the academic advising community.

Implications for future research

- CASVE cycle + academic advisors' own self-efficacy and perceptions surrounding facilitating career development advising conversations
- How students from various majors receive this material and perceive its utility in their lives
- How do race, gender, sexual identity and other factors justice, equity, diversity, and inclusion factors affect students' career perceptions, aspirations, and behaviors
- Expand on the effect of an academic advisor or someone in a similar advising/counseling role instructing a career development course





How does this study fit into the bigger picture?







Thank you for your time and attention!







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