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Scaffolded Research Skills Series for Nutrition and Dietetics Students: A Collaboration

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Scaffolded Research Skills Series for Nutrition & Dietetics Students: A Collaboration

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Overview

- My role at Brooklyn College
- Background to the research skills series
- Preparing the series
- The current lesson plans and courses
- Next steps

Who Am I?

- Hired prior to Academic Year 2014-2015
- Reference and instruction librarian
 - Subject area instruction
 - ENGL 1012 instruction
- Bibliographer for HNSC, KINS, EESC, MATH, Urban Sustainability
- Practitioner-researcher
 - Qualitative methods

My First Semester...

- Adapted lesson plans from sessions taught in previous role at NYU
- Reflected on my instruction sessions for HNSC courses
- How can I improve these lesson plans to support student success?

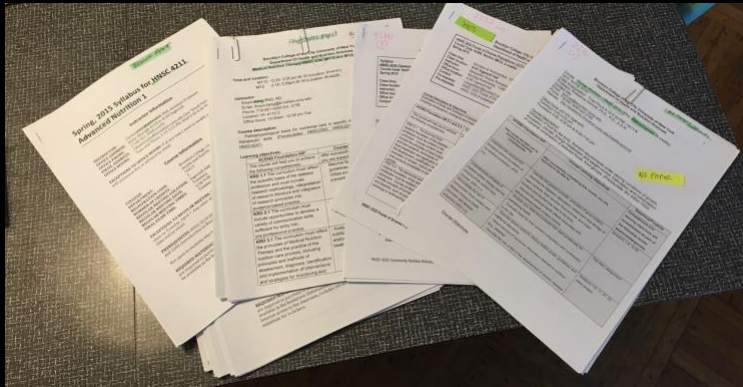
The conversation begins...

- Chatted informally with faculty after lessons
- Invited by Nutrition Steering Committee to discuss research skills building for undergraduates
- How can we collaborate to better support BS Health & Nutrition -- Foods and Nutrition/ Didactic Program in Nutrition and Dietetics students?

Document Analysis

- Syllabi mining
- Curriculum map (provided by Nutrition Steering Committee)
- DPD student handbook
 - ACEND KRDS
 - List of required courses and course sequences

Syllabi Mining



Curriculum Map

Course	Instructor	Antirequisite Library Exclusion(s) if any	Objectives of Library Activities (which focus?)	Assignments	Activities used by students	Objective(s) Addressed	ACSCC	Comments	Notes
ANSC 1100 Park Course									
ANSC 2202 Psychology									
ANSC 2201 Psychology Lab									
ANSC 2219 Human Nutrition	Michelle Schuch			Extra course assignment (20% of total)	20% of total for assignments, 20% of total for extra course assignment (20% of total)	1, 2, 3, 4			
ANSC 2205 Food Science	Alister	Feedback on research	1) make chapter reading ready to report on related topics.		Typed summary and class discussion				
ANSC 2207 Food Science	Alister	Review 1 presentation							
ANSC 2202 Online Prep Lab	Michelle Schuch		Gain familiarity with the HC library search process, digital resources and books to inform assignment development and APA citation style for all sections	Advanced Microscopy 10 (10%)	Search on searching for images, charts, statistics	1, 1.1, 1.2	1.1, 1.2	Statistics, CI	
ANSC 2203 Online Prep Lab	Michelle Schuch	None							
ANSC 2204 Librarianship	Michelle Schuch	1) have made a book available from our library on loan. 2) use books beyond to create new for Nutrition facts on nutrition science requirements	for them purpose is for course assignment		Classroom presentation & 2 book club for current events on dietetics				
ANSC 2208 Institutional Food Service Mgmt									
ANSC 3300 Biostatistics	Michelle					1, 1.1, 1.2	1.1, 1.2	Public Health, Medicine	

ACEND Accreditation Standards

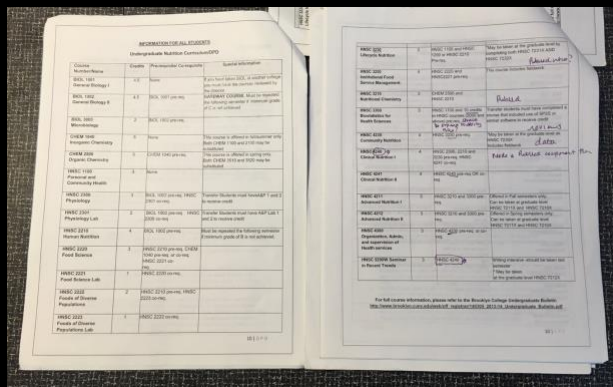
Standard 5: Curriculum and Learning Activities Core Knowledge Requirements for Dietetics and Nutrition (KRDNs)

Domain 1. Scientific and Evidence Base of Practice:
Integration of scientific information and translation of
research into practice.

Upon completion of the program, graduates are able to:

- KRDN 1.1 Demonstrate how to locate, interpret, evaluate and use professional literature to make ethical, evidence-based practice decisions.
- KRDN 1.2 Use current information technologies to locate and apply evidence-based guidelines and protocols.
- KRDN 1.3 Apply critical thinking skills.

Required DPD Courses



Rationale for Series

- “Chunk” the lessons to build skills in a logical manner (scaffolding)
- Spread across curriculum rather than try to do it all in a “one shot” lesson
- Goal is to develop a “toolkit” for professional practice

Pilot Version Fall 2016

2210 Human Nutrition	Health Information and the Internet
2222 Foods of Diverse Populations	Library databases/searching/ citation management
3210 Nutritional Chemistry	Introduction to PubMed
4230 Community Nutrition Education	NYC health and demographic data
4241 Clinical Nutrition	Advanced PubMed
5290W Recent Trends (capstone)	Pulling it all together: Using PubMed, Scopus, Google Scholar

Current Series

2210 Human
Nutrition

2222 Foods of
Diverse
Populations

4211 Advanced
Nutrition 1

4230
Community
Nutrition
Education

4250 Integrative
Nutrition and
Functional
Foods

5290W Seminar
in Recent
Trends in
Nutrition

Lesson 1: Online Health Information Literacy

HNSC 2210 Human Nutrition

Learning Objectives:

- Distinguish between and articulate the differences between health information sources found on the web.
- Understand the difference in searching library databases and search engines such as Google.

Assignment:

In class group discussion: Evaluate an online source of choice.

Would you use this source for a research paper? Why or why not?

Lesson 2: Using Online Databases and Citation Management Tools

HNSC 2222 Foods of Diverse Populations

Learning Objectives:

- Describe databases appropriate for interdisciplinary nutrition research (Medline, CINAHL, SocINDEX).
- Construct searches using Boolean logic. Access and download full text articles.

Assignment:

Annotated bibliography: 8 of 10 sources must be peer reviewed scholarly articles, APA style citations

Lesson 3: Introduction to PubMed

HNSC 4211 Advanced Nutrition 1

Learning Objectives:

- Construct basic searches in *PubMed*.
- Describe what MeSH terms are and how to use them effectively for searches.
- Access full text (free and subscription) via library link to *PubMed*.

Assignment:

Using *PubMed*, search for and choose a scientific article about hypertension or osteoporosis
Write evaluative report about the scientific article.

Lesson 4: Finding Health and Demographic Data

HNSC 4230 Community Nutrition Education

Learning Objectives:

- Locate and use NYC demographic and health data.
- Understand the role of data in evidence-based decision making and nutrition programs.

Assignment:

Develop a nutrition program for a particular NYC neighborhood. Using data, statistics, and literature demonstrate the evidence for your particular program. Term paper and group presentation.

Lesson 5: Searching for Complementary Health Information

HNSC 4250 Integrative Nutrition and Functional Foods

Learning Objectives:

- Locate systematic reviews using Cochrane Library and PubMed
- Locate complementary therapies info in AltHealthWatch, PubMed
- Use filters and MeSH terms effectively for PubMed

Assignment: Evidence-based short report about an alternative nutrition therapy

Lesson 6: Putting It All Together—Using Your Research Toolkit

HNSC 5290W Seminar in Recent Trends in Nutrition

Learning Objectives:

- Create search strategies for various databases for individual research project.
- Use Scopus and Google Scholar to find related studies/ research by tracking citations.
- Understand the research process and the value of using a combination of tools.

Assignment:

Individual term paper and seminar presentation on a nutrition trend. Min. 10 scholarly sources

Assessing the Series

- Short, optional [feedback survey](#) posted to Blackboard at end of semester
- 4211 midterm exam includes a few questions about the PubMed lesson
- Meet with Nutrition Steering Committee each semester to check in
- Observe student presentations in 4230 each semester

Next Steps

In collaboration with Nutrition Steering and faculty:

- Determine more formal evaluation mechanisms and implement
- Update lesson plans/assignments in accordance with new ACEND requirements for RD

Thank you!

Many thanks to my colleagues in the DPD program and to the Nutrition Steering Committee

Questions? Comments? Feedback?

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