

International 2+2 curriculum

RU-South China University of Technology (SCUT) Joint Food Science Sciences Curriculum

PLEASE NOTE THAT THIS COURSE INFORMATION IS APPLICABLE TO 2+2 INTERNATIONAL FOOD SCIENCE MAJOR STUDENTS FROM ABOVE MENTIONED UNIVERSITY ONLY.

SEBS Core Curriculum Requirements

SCUT 2+2 students will be considered to have satisfied the requirements of the SEBS Common Core, except for the following three Common Core elements that must be satisfied by courses taken at Rutgers—New Brunswick:

- 21st C Challenges (21C): 3 credits
- Experience-Based Education (EBE): 0-3 credits
- Writing and Communication (WC 101 and WCD): 6 credits

GUIDELINES FOR 2+2 SCUT & RUTGERS STUDENTS

- Upon admission into Rutgers, all students **MUST** take English Writing Placement exam.
- Your placement score is a **REQUIRED** pathway for Expository Writing course (01:355:101) (3 cr).
- Students will be placed into English as Academic Discourse Fundamentals (EAD-01:356:154) or English for Academic Discourse I (EAD I 01:356:155) or English for Academic Discourse II (EAD II 01:356:156) or BASIC COMP (01:355:100) or Expository Writing (01:355:101), based on their placement scores.
- Please be advised that these courses do **NOT** fulfill the credits for Writing and Communication (WC 101 and WCD)
 - English as Academic Discourse Fundamentals (EAD-01:356:154)
 - English for Academic Discourse I (EAD I 01:356:155)
 - English for Academic Discourse II (EAD II 01:356:156)
 - BASIC COMP (01:355:100)

- Students commonly get placed into English for Academic Discourse I (EAD I 01:356:155); subsequently, 4 semesters of writing courses are often REQUIRED prior to graduation.
- SEBS Core requirement for Writing & Communication (WCd) course MUST be completed at Rutgers. For list of courses, go to: <https://sebs.rutgers.edu/core/writing-and-communication.html> and choose course with core code WCd.
- All students must be enrolled in 12 or more credits per semester

Basic Science Courses Required for Food Science Major

SCUT COURSE #	RU COURSE	CR
High School Biology & SCUT 139003 Food Microbiology Lec & SCUT 139029 Food Microbiology Lab	BIOLOGY I (01:119:115) BIOLOGY II (01:119:116) BIOLOGY LAB (01:119:117)	8; Transferable
SCUT 139004 Food Biochemistry & SCUT 139010 Food Chemistry & SCUT 139028 Experiment of Food Biochemistry	BIOCHEMISTRY (11:115:301 or 403)	3; Transferable
SCUT 140003 Advanced Mathematics for Engineers (I) (5 cr) & SCUT 140004 Advanced Mathematics for Engineers (II) (4 cr)	CALCULUS I (01:640:135 or 151)	4; Transferable
	CALCULUS II (01:640:136 or 138 or 152)***	RUTGERS
SCUT 147001 Inorganic Chemistry I (2 cr) &	GENERAL CHEMISTRY I (01:160:161)	9; Transferable

SCUT 147008 Analytical Chemistry I (2 cr) &	GENERAL CHEMISTRY II (01:160:162)	
SCUT 147013 Analytical Chemistry Lab I (1 cr) &		
SCUT 147058 Physical Chemistry I (3 cr) &	CHEMISTRY LAB (01:160:171)	
SCUT 169003 Inorganic Chemistry Lab I (1 cr)		
SCUT 147020 Organic Chemistry I (3 cr) &	ELEMENTARY ORGANIC CHEMISTRY (01:160:209)	3; Transferable
SCUT 147007 Organic Chemistry Lab I (1 cr)	ORGANIC CHEMISTRY LAB (01:160:211 or 313)	1; Transferable
SCUT 147020 Organic Chemistry I (3 cr) &	ORGANIC CHEMISTRY I (01:160:307)	4; Transferable
SCUT 147007 Organic Chemistry Lab I (1 cr)		
<p>Elem Orgo OR Orgo I may be transferable; not both. Students interested in Food Science Research option should transfer Organic Chemistry credits as Orgo I.</p>		
	ORGANIC CHEMISTRY II (01:160:308)***	4; RUTGERS
	ORGANIC CHEMISTRY LAB*** (01:160:311 or 313)	2; RUTGERS
	GEN MICROBIOLOGY (01:447:390 OR 01:680:390)	4; RUTGERS

SCUT 141001 General Physics I (3 cr) &	PHYSICS I (01:750:193 or 201 or 203 & 205)	4; Transferable
SCUT 141002 General Physics II (3 cr)	PHYSICS II (01:750:194 or 202 or 204 & 206)	4; Transferable
SCUT 140019 Probability & Math Statistics	STATISTICS (01:960:211 or 285 or 401)	3; Transferable

***: These courses are required if a student chooses Food Science Research option.

Food Science Course

SCUT 139009 Food, Nutrition and Hygiene	Food & Health (11:400:104) OR Science of Food (11:400:103)	3 credits transferable
--	--	------------------------

For required Food Science Courses, go to:

http://foodsci.rutgers.edu/undergrad/Course_Requirements.html

<http://foodsci.rutgers.edu/undergrad/curriculum1.html>

SAMPLE COURSE SEQUENCE FOR SCUT+ RUTGERS STUDENTS

FOOD SCIENCE MAJOR

GENERAL OPTION

COURSE	COURSE #	# of credits
3rd YEAR- FALL TERM		
Writing Course per placement/Expos		3
Principles of Food Science	11:400:201	3
Principles of Food Science Lab	11:400:202	2
Food Processing Technologies	11:400:301	4

General Microbiology	11:447/680:390	4
----------------------	----------------	---

TOTAL SEMESTER CREDITS	16
-------------------------------	-----------

CUMULATIVE CREDITS	16
---------------------------	-----------

3rd YEAR- SPRING TERM

Writing Course per placement/Expos		3
------------------------------------	--	---

Food Analysis	11:400:304	4
---------------	------------	---

Food Microbiology	11:400:423	3
-------------------	------------	---

Food Microbiology Lab	11:400:424	1
-----------------------	------------	---

SEBS 21C Course		3
-----------------	--	---

TOTAL SEMESTER CREDITS	14
-------------------------------	-----------

CUMULATIVE CREDITS	30
---------------------------	-----------

4th YEAR- FALL TERM

Writing Course per placement/Expos		3*
------------------------------------	--	----

OR Research in the discipline	01:355:201	3*
-------------------------------	------------	----

Sensory Evaluation of Food	11:400:405	3
----------------------------	------------	---

Food Chemistry	11:400:411	4
----------------	------------	---

Experience- based Education	11:400:493	3
-----------------------------	------------	---

Electives		3
-----------	--	---

TOTAL SEMESTER CREDITS	16
-------------------------------	-----------

CUMULATIVE CREDITS	46
---------------------------	-----------

4th YEAR- SPRING TERM

Writing Course per placement/Expos		3*
------------------------------------	--	----

OR Research in the discipline	01:355:201	3*
-------------------------------	------------	----

Food Product Development	11:400:412	3
--------------------------	------------	---

Current Issues in Food Sci Food Law	11:400:314	2
-------------------------------------	------------	---

Electives		3-9*
-----------	--	------

*: depends on the students' completion of writing courses

TOTAL SEMESTER CREDITS	14
-------------------------------	-----------

CUMULATIVE CREDITS	60**
---------------------------	-------------

** : Please note that this is a rough estimate of number of credits.
A minimum of 128 credits (SCUT + RU) is required for graduation.

In order to accelerate the writing courses, students can register for summer session(s). Students also have the opportunity to complete a Minor program of their choice. Please discuss this with SEBS 2+2 International Office Personnel.

Electives to meet with that can be chosen by SCUT students may be chosen from Food Science or other SEBS courses offered. Food Science courses are listed below:

- 11:400:106 (3 cr) Food as Medicine
- 11:400:107 (3 cr) Foods: from Field to Table
- 11:400:302 (4 cr) Food Process Engineering
- 11:400:410 (3 cr) Nutrigenomics
- 11:400:419 (3 cr) Food Physical Systems
- 11:400:422 (3) Colloquium in Food Safety
- 11:400:494 (1-6 cr) Experience-based Education, 2nd registration

Study Abroad Program

- 11:680:410 (3) Microbiology & Culture of Wine & Cheese