MIDDLE STATES COMMISSION ON HIGHER EDUCATION
3624 Market Street, Philadelphia, PA 19104-2680. Tel: 267-284-5000. Fax: 215-662-5501
www.msche.org

STATEMENT OF ACCREDITATION STATUS

RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY
Old Queens Building
New Brunswick, NJ 08901
Phone: (732) 932-4636; Fax: (732) 932-8060
www.rutgers.edu

Chief Executive Officer: Dr. Richard L. McCormick, President

INSTITUTIONAL INFORMATION

Enrollment (Headcount):	37072 Undergraduate; 12944 Graduate
Control:	Public
Affiliation:	State
Institution Type:	Doctoral/Research-Extensive
Degrees Offered:	Certificate/Diploma, Bachelor's, Master's, 1st Professional Degree, Doctoral;
Distance Learning:	Yes

Accreditors Approved by U.S. Secretary of Education: Accrediting Board for Engineering and Technology (ABET); American Bar Association (ABA), Section on Legal Education and Admission to the Bar; American Council on Pharmaceutical Education (ACPE); American Dietetic Association, Commission on Accreditation for Dietetics Education (CADE); American Library Association (ALA), Committee on Accreditation; American Physical Therapy Association (APTA), Commission on Accreditation; American Psychological Association (APA), Committee on Accreditation; Association of American Law Schools (AALS); Association to Advance Collegiate Schools of Business; Commission on Collegiate Nursing Education (CCNE); Council on Education for Public Health (CEPH); Council on Social Work Education (CSWE); Landscape Architecture Accrediting Board (LAAB); National Accrediting Agency for the Clinical Laboratory Sciences (NAACLS); National Association of Schools of Dance (NASD), Commission on Accreditation; National Association of Schools of Music (NASM), Commission on Accreditation; National Association of Schools of Public Affairs and Administration (NASPAA), Commission on Peer Review and Accreditation; Planning Accreditation Board (PAB)

Other Accreditors: American Chemical Society; Teacher Education Accreditation

Council.

Instructional Locations

Branch Campuses: None

Additional Locations: Atlantic Cape Community College, Atlantic City, NJ; CCM, Headquarters Plaza, Morristown, NJ; Educational Testing Service, Princeton, NJ; Harborside Financial Center, Jersey City, NJ; Merrill Lynch, Hopewell, NJ; Merrill Lynch Executive Education Center, Plainsboro, NJ; NJ Dept. of Personnel, HRDI, Trenton, NJ; PHH Training Center, Mount Laurel, NJ; Plaza Business Centre, Shanghai, China; Plaza Conference Centre , Beijing, China; The College of New Jersey, Ewing, NJ; Virtua Health, Voorhees, NJ

Other Instructional Sites: Atlantic Cape Community College, Mays Landing, NJ; Bordentown, Bordentown, NJ; Bridgeton, Bridgeton, NJ; Bridgewater-Raritan High School, Bridgewater, NJ; Camden Elementary School, Newark, NJ; Cape May High School, Cape May, NJ; Central Administration Building, Trenton, NJ; Cherokee High School, Marlton, NJ; Clark High School, Clark, NJ; Creskill High School, Creskill, NJ; East Brunswick High School, East Brunswick, NJ; Eastern Regional High School, Voorhees, NJ; Haddonfield High School, Haddonfield, NJ; High School, Gloucester, NJ; Highland Park, Highland Park, NJ; McNair High School, Jersey City, NJ; Middlesex County Educational Services Commission, Piscataway, NJ; Morris Hills High School, Rockaway, NJ; Morristown High School, Morristown, NJ; North Branch, North Branch, NJ; Northfield Community School, Northfield, NJ; Oakcrest High School, Mays Landing, NJ; Old Bridge High School, Old Bridge, NJ; Plainfield Adult Learning Center, Plainfield, NJ; Princeton High School, Princeton, NJ; Rancocas Regional High School, Mount Holly, NJ; Ridgefield Park Jr.-Sr. High School, Ridgefield Park, NJ; Slackwood School, Lawrenceville, NJ; South Brunswick High School, South Brunswick, NJ; South Plainfield High School, South Plainfield, NJ; Union High School, Union, NJ; Wayne Hills High School, Wayne, NJ; Western Monmouth Higher Ed. Center, Freehold, NJ; Winfield Scott School, Elizabeth, NJ

ACCREDITATION INFORMATION

Status: Member since 1921

Last Reaffirmed: November 19, 2003

Most Recent Commission Action:

June 15, 2005: SUBSTANTIVE CHANGE COMMITTEE - to acknowledge receipt of the substantive change request submitted by Rutgers University and to include the online Master of Library and Information Science degree program within the scope of the

institution's accreditation. The next evaluation visit is scheduled for 2007-2008.

Brief History Since Last Comprehensive Evaluation:

November 19, 2003: To accept the Periodic Review Report and to reaffirm accreditation. The next evaluation visit is scheduled for 2007-08.

Next Self-Study Evaluation: 2007 - 2008

Next Periodic Review Report: 2013

Date Printed: September 8, 2006

DEFINITIONS

Branch Campus - A location of an institution that is geographically apart and independent of the main campus of the institution. The location is independent if the location: offers courses in educational programs leading to a degree, certificate, or other recognized educational credential; has its own faculty and administrative or supervisory organization; and has its own budgetary and hiring authority.

Additional Location - A location, other than a branch campus, that is geographically apart from the main campus and at which the institution offers at least 50 percent of an educational program.

Other Instructional Sites - A location, other than a branch campus or additional location, at which the institution offers one or more courses for credit.

Distance Learning - Yes or No indicates whether or not the institution has been approved to offer one or more degree or certificate/diploma programs for which students could meet 50% or more of their requirements by taking distance learning courses.

PROFESSIONAL ACCREDITATION

Certain programs on the Camden, Newark, and New Brunswick/Piscataway campuses of Rutgers, The State University of New Jersey have specialized accreditation. The following associations and agencies accredit or approve university programs: AACSB International - The Association to Advance Collegiate Schools of Business; Accreditation Board for Engineering and Technology, Inc.; Accreditation Council for Pharmacy Education; American Bar Association; American Chemical Society; American Library Association; American Physical Therapy Association; American Psychological Association; American Society of Landscape Architects; Association of American Law Schools; Commission on Accreditation for Dietetics Education; Commission on Collegiate Nursing Education; Council on Education for Public Health; Council on Social Work Education; National Accrediting Agency for Clinical Laboratory Sciences (program through The Cooper Health System); National Association of Schools of Dance; National Association of Schools of Music; National Association of Schools of Public Affairs and Administration; Planning Accreditation Board; Teacher Education Accreditation Council.

Undergraduate Enrollment by Attendance Status
Fall 2005

Students	Attendance Status				
	Full-time		Part-time		Total
	Number	Percentage	Number	Percentage	
Undergraduates	32,221	86.9%	4,851	13.1%	37,072

Graduate and First-Professional Enrollment by Attendance Status

Fall 2005

Students	Attendance Status				
	Full-time		Part-time		Total
	Number	Percentage	Number	Percentage	
Graduate	4,502	41.0%	6,484	59.0%	10,986

Students	Attendance Status				
	Full-time		Part-time		Total
	Number	Percentage	Number	Percentage	
First-Professional	1,492	76.2%	466	23.8%	1,958

Non-Credit Student Enrollment
FY 2004-2005

UNIT	ENROLLMENT
ALCOHOL STUDIES	925
CENTER FOR APPLIED PSYCHOLOGY	122
CENTER FOR CONTINUING PROFESSIONAL DEVELOPMENT	339
CENTER FOR MANAGEMENT AND ENTREPRENEURSHIP	1,620
CENTER FOR EFFECTIVE SCHOOL PRACTICES	1,306
CENTER FOR GOVERNMENT SERVICES	6,542
CENTER FOR MANGEMENT DEVELOPMENT	3,116
CENTER FOR MATHEMATICS, SCIENCE, AND COMPUTER ED	2,149
ECOLLEGE	415
ESH KEYS	232
GRADUATE SCHOOL OF EDUCATION	1,414
NATIONAL TRANSIT INSTITUTE	12,460
COOK	19,273
PALS - NEW BRUNSWICK	207
PALS - NEWARK	371
SCHOOL OF PHARMACY	4,670
READING INSTITUTE	105
OSHER LIFELONG LEARNING INSTITUTE	2,729
NURSING	1,553
SCHOOL OF COMMUNICATION, INFORMATION & LIBRARY SCIENCES	68
SCHOOL OF MANAGEMENT & LABOR RELATIONS	274
SCHOOL OF ENGINEERING	199
SOCIAL WORK	3,750
UNIFORM CONSTRUCTION CODE	9,551
YOUTH SPORTS	9,980
TOTAL	**84,315**

Mean Math and Verbal SAT for First-Time Freshmen, by Admission Status and Overall

Fall 2005

Admission Status	Full-Time Students *				Part-Time Students *			
	Math	N	Verbal	N	Math	N	Verbal	N
Regular Admits	619	5,256	588	5,256	541	8	538	8
EOF Admits	515	513	483	513				
Special Admits	534	451	523	451				
All Admits	604	6,220	575	6,220	541	8	538	8

*** Missing Scores: Full-Time Students - 65; Part-Time Students - 9**

Rutgers uses the following basic skills test and criteria:

All newly admitted first-year students will take Rutgers University's placement tests. Transfer students entering Rutgers without an equivalent English writing course or math course will also be required to take placement tests. The placement tests are designed to provide information about students' individual skills in the English language and in mathematics. The test results will be used to place students in the courses and sections appropriate to their level of preparation.

Basic Skills Placement Report on the Fall 2005 Entering Cohort

English Placements	**All Rutgers Campuses**	**Recent HS Grads**
Number First Time, First Year, FT Students	6,285	
Number Remedial	739	724
Percent Remedial	11.8%	11.5%
Math Placements	**All Rutgers Campuses**	**Recent HS Grads**
Number First Time, First Year, FT Students	6,285	
Number Remedial*	1,703	1,643
Percent Remedial*	27.1%	26.1%
English and Math Placements	**All Rutgers Campuses**	**Recent HS Grades**
Number First Time, First Year, FT Students	6,285	
Number Remedial in English and Math*	385	375
Percent Remedial*	6.1%	6.0%
English or Math Placements		
Number First Time, First Year, FT Students	6,285	
Number Remedial in English and Math*	2,057	2012
Percent Remedial*	32.7%	32.0%

Notes:

- All numbers exclude ESL students.

* Remedial numbers are through intermediate algebra.

Undergraduate Enrollment, Fall 2005

By Race/Ethnicity						
	Full-Time		Part-Time		Total	
	N	Percent	N	Percent	N	Percent
African American	3,516	10.91%	759	15.65%	4,275	11.53%
American Indian	78	0.24%	13	0.27%	91	0.25%
Asian	7,191	22.32%	585	12.06%	7,776	20.98%
Latino	3,058	9.49%	489	10.08%	3,547	9.57%
White	16,405	50.91%	2,314	47.70%	18,719	50.49%
Non Resident Alien	585	1.82%	75	1.55%	660	1.78%
Unknown	1,388	4.31%	616	12.70%	2,004	5.41%
Total	**32,221**		**4,851**		**37,072**	

By Sex						
	Full-Time		Part-Time		Total	
	N	Percent	N	Percent	N	Percent
Female	16,919	52.51%	2,696	55.58%	19,615	52.91%
Male	15,302	47.49%	2,155	44.42%	17,457	47.09%
Total	**32,221**		**4,851**		**37,072**	

By Age						
	Full-Time		Part-Time		Total	
	N	Percent	N	Percent	N	Percent
Less Than 18	135	0.42%	110	2.27%	245	0.66%
18-19	10,859	33.70%	116	2.39%	10,975	29.60%
20-21	12,655	39.28%	352	7.26%	13,007	35.09%
22-24	6,298	19.55%	1,342	27.66%	7,640	20.61%
25-29	1,364	4.23%	1,141	23.52%	2,505	6.76%
30-34	403	1.25%	523	10.78%	926	2.50%
35-39	214	0.66%	399	8.23%	613	1.65%
40-49	236	0.73%	588	12.12%	824	2.22%
50-64	57	0.18%	255	5.26%	312	0.84%
65 and Older	0	0.00%	11	0.23%	11	0.03%
Unknown	0	0.00%	14	0.29%	14	0.04%
Total	**32,221**		**4,851**		**37,072**	

Number and Amount of Grants, Scholarships, and Awards
Undergraduate Students, 2004/2005

GRANTS, SCHOLARSHIPS, AND AWARDS	# OF AWARDS	DOLLARS
Federal		
Pell	10,465	28,744,954
SEOG	2,226	2,409,369
Other - Robert C. Byrd	28	39,750
State		
Distinguished Scholars*	2,894	2,832,555
EOF	2,840	3,041,746
Tuition Aid Grant (TAG)	10,165	41,820,818
Urban Scholars *		
Rutgers University		
University Merit Awards		
James D. Carr	594	5,279,204
Outstanding Scholars Program	2,782	11,432,349
All Others	251	1,222,500
Athletic Scholarships	783	6,323,153
Rutgers Assistance Grants	11,002	8,457,453
Rutgers Scholarship Awards	5,681	11,166,555
Tuition Remission	721	4,873,307
Private		
External Awards	1,988	5,152,097
Total Grants, Scholarships, & Awards	**52,420**	**$132,795,810**

* Financial need not considered in the awarding of funds. Includes the Outstanding Scholars Program, which is jointly funded with the State of New Jersey.

Source: University Financial Aid Office

Number and Amount of Loans and Student Employment

Undergraduate Students, 2004/2005

LOANS AND STUDENT EMPLOYMENT	# OF AWARDS	DOLLARS
Loans		
NJCLASS	1,911	17,324,962
Perkins (NDSL)	2,989	4,793,949
PLUS	1,343	12,543,470
Private	1,312	12,204,710
RULP	82	205,616
Stafford, Subsidized	15,852	60,063,186
Stafford, Unsubsidized	8,716	33,802,147
Total Loans	**32,205**	**$140,938,040**
Student Employment		
Student Employment	6,791	14,074,244
Federal Work Study Program	3,179	4,148,503
Total Student Employment	**9,970**	**$18,222,747**
Total Awards and Amounts (includes previous page and this page)	**94,605**	**$291,956,597**
Number of Students Aided	**30,398**	
Average Award		**$9,604**

Source: University Financial Aid Office

Undergraduate Enrollment by State of Residence
First-Time Full-Time First-Year Students, Fall 2005

	Enrollment	
Place of Residence	**Number**	**Percentage**
New Jersey	5,692	90.56
Non-New Jersey	593	9.44
Total	**6,285**	

Baccalaureate Degrees Conferred, FY 2005

By Race/Ethnicity		
	Baccalaureate Degrees	
	N	Percent
African American	801	10.1
American Indian	18	0.2
Asian	1,480	18.6
Latino	681	8.6
White	4,372	55.0
Non Resident Alien	202	2.5
Unknown	389	4.9
Total	**7,943**	

By Gender		
	Baccalaureate Degrees	
	N	Percent
Male	3,478	43.8
Female	4,465	56.2
Total	**7,943**	

Baccalaureate Degrees Conferred by General Field, FY 2005

IPEDS CIP Code Major Category	Number of Degrees
Agricultural Sciences	74
Conservation & Renewable Resources	71
Architecture	38
Area Studies	123
Business/Management	942
Communications	473
Computer Sciences	397
Education	146
Engineering	440
English/Letters	379
Foreign Language	152
Health Sciences	235
History	352
Liberal Studies	26
Life Sciences	605
Mathematics	124
Multidiscipline	59
Philosophy/Religion	97
Physical Sciences	108
Psychology	834
Protective Service	422
Public Affairs	80
Social Sciences	1,390
Visual/Perf. Arts	376
Total	7,943

Four-, Five- and Six-Year Graduation Rates of Fall 1999
Full-time First-time Freshmen by Race/Ethnicity

Race/Ethnicity	Fall 1999 Cohort	Graduates after 4 Years		Graduates after 5 Years		Graduates after 6 Years	
	N	N	%	N	%	N	%
African American	**549**	167	30.4	290	52.8	339	61.7
Asian	**1,364**	561	41.1	850	62.3	1,017	74.6
Latino	**593**	136	22.9	286	48.2	341	57.5
White	**3,503**	1,523	43.5	2,254	64.3	2,469	70.5
Non-Resident Alien	**154**	62	40.3	95	61.7	106	68.8
Other *	**352**	115	32.7	195	55.4	223	63.4
Total	**6,515**	2,564	39.4	3,970	60.9	4,495	69.0

* Other includes American Indian and Unknown Race.

Four-, Five- and Six-Year Graduation Rates of Fall 1999
Full-time First-time Freshmen by Income

Race/Ethnicity	Fall 1999 Cohort	Graduates after 4 Years		Graduates after 5 Years		Graduates after 6 Years	
	N	N	%	N	%	N	%
Low Income *	**1204**	329	27.3	637	52.9	777	60.9
Non-Low Income	**3,193**	1,342	42.0	2,075	65.0	2,307	72.3
Unknown	**2,118**	893	42.2	1,258	59.4	1,411	68.9
Total	**6,515**	2,564	39.4	3,970	60.9	4,495	69.1

* Low Income is defined as student with a NJ Eligibility Index between 1 and 24,999.

Third Semester Retention of Full-time First-time Freshmen by Race/Ethnicity, Fall 2004 to Fall 2005

	RETAINED		NOT RETAINED		TOTAL	
Race/Ethnicity	**N**	**%**	**N**	**%**	**N**	**%**
African American	523	87.6	74	12.4	597	100
American Indian	9	90.0	1	10.0	10	100
Asian	1,339	90.7	138	9.3	1,477	100
Latino	520	84.7	94	15.3	614	100
White	2,652	86.8	404	13.2	3,056	100
Non-Resident Alien	67	83.8	13	16.3	80	100
Unknown	199	85.0	35	15.0	234	100
Total	5,309	87.5	759	12.5	6,068	100

Third Semester Retention of Full-time First-Time Freshmen by Income
Fall 2004 to Fall 2005

Race/Ethnicity	RETAINED		NOT RETAINED		TOTAL	
	N	%	N	%	N	%
Low Income *	867	87.8	121	12.2	988	100
Non-Low Income	3,089	88.5	401	11.5	3,490	100
Unknown	1,353	85.1	237	14.9	1,590	100
Total	5,309	87.5	759	12.5	6,068	100

* Low Income is defined as student with a NJ Eligibility Index between 1 and 24,999.

Entering Undergraduates by Admission Status and Attendance Status, Fall 2005

	New Transfer		First-time *		Total	
	N	%	N	%	N	%
Full-time	2,419	27.5	6,388	72.5	8,704	100
Part-time	486	46.0	570	54.0	503	100
Total	2,905	29.5	6,958	70.5	9,207	100

Note: First-time is all levels of undergraduate students, including non-matriculated students.

Full-Time Faculty by Race/Ethnicity, Gender, Tenure Status and Academic Rank, Fall 2005

Race/Ethnicity	Gender	TENURED				
		Professor	Associate Professor	Assistant Professor	All Others	Total
African American	Male	20	19	0	0	39
	Female	7	15	0	0	22
American Indian	Male	0	1	0	0	1
	Female	0	1	0	0	1
Asian	Male	71	40	1	0	112
	Female	9	15	0	0	24
Latino	Male	11	10	0	0	21
	Female	3	3	0	0	6
White	Male	654	279	1	0	934
	Female	168	196	1	1	366
Non-Resident Alien	Male	11	11	0	0	22
	Female	2	10	0	0	12
Unknown	Male	0	0	0	0	0
	Female	0	0	0	0	0
Total	Male	767	360	2	0	1,129
	Female	189	240	1	1	431

Race/Ethnicity	Gender	WITHOUT TENURE				
		Professor	Associate Professor	Assistant Professor	All Others	Total
African American	Male	1	4	4	11	20
	Female	3	2	12	8	25
American Indian	Male	0	0	1	1	2
	Female	0	0	5	0	5
Asian	Male	2	11	33	36	82
	Female	0	6	35	49	90
Latino	Male	0	2	5	4	11
	Female	1	1	7	10	19
White	Male	25	42	141	153	361
	Female	19	50	148	157	374
Non-Resident Alien	Male	3	15	61	178	257
	Female	0	8	29	94	131
Unknown	Male	0	0	0	0	0
	Female	0	0	0	0	0
Total	Male	31	74	245	383	733
	Female	23	67	236	318	644

Race/Ethnicity	Gender	TOTAL				
		Professor	Associate Professor	Assistant Professor	All Others	Total
African American	Male	21	23	4	11	59
	Female	10	17	12	8	47
American Indian	Male	0	1	1	1	3
	Female	0	1	5	0	6
Asian	Male	73	51	34	36	194
	Female	9	21	35	49	114
Latino	Male	11	12	5	4	32
	Female	4	4	7	10	25
White	Male	679	321	142	153	1,295
	Female	187	246	149	158	740
Non-Resident Alien	Male	14	26	61	178	279
	Female	2	18	29	94	143
Unknown	Male	0	0	0	0	0
	Female	0	0	0	0	0
Total	Male	798	434	247	383	1,862
	Female	212	307	237	319	1,075

Instructional Faculty
Teaching by Full-time/Part-time Level

FACULTY	% of SCHs
Full-time Faculty	61.09
Part-time Faculty	38.91
Total	100

Ratio of Full- to Part-time Faculty, Fall 2005

Full-time		Part-time		Total	
N	**%**	**N**	**%**	**N**	**%**
2,937	62.4	1,767	37.6	4,704	100

THE STATE UNIVERSITY OF NEW JERSEY
RUTGERS

Office of the Secretary of the Boards of Governors and Trustees

DIVERSITY TABLES – as of September 13, 2006

BOARD OF GOVERNORS

Table 1

CAUCASIAN MALE	9
AFRICAN AMERICAN MALE	1
CAUCASIAN FEMALE	1
	11

Table 2

MALE	10
FEMALE	1
	11

Table 3

AFRICAN AMERICAN	1
CAUCASIAN	10
	11

Table 4

Minority	
MALE	1
FEMALE	0
Non-Minority	
MALE	9
FEMALE	1
	11

BOARD OF TRUSTEES

Table 1

CAUCASIAN MALE	35
CAUCASIAN FEMALE	12
AFRICAN AMERICAN MALE	6
AFRICAN AMERICAN FEMALE	2
HISPANIC MALE	1
HISPANIC FEMALE	1
VACANCIES	2
	59

Table 2

MALE	42
FEMALE	15
VACANCIES	2
	59

Table 3

AFRICAN AMERICAN	8
HISPANIC	2
CAUCASIAN	47
VACANCIES	2
	59

Table 4

Minority	
MALE	7
FEMALE	3
Non-Minority	
MALE	35
FEMALE	12
VACANCIES	2
	59

RUTGERS UNIVERSITY / CAMDEN				
BACHELOR'S	B.S.	ACCOUNTING	Accounting and Related Services	520301
	B.A.	AFRO-AMERICAN STUDIES	Ethnic, Cultural Minority, and Gender Studies	050201
	B.A.	ART	Fine and Studio Art	500701
	B.A.	BIOLOGY	Biology, General	260101
	B.S.	BIOMEDICAL TECHNOLOGY	Clinical/Medical Laboratory Science and Allied Professions	511005
	B.A.	CHEMISTRY	Chemistry	400501
	B.A.	CHILDHOOD STUDIES	Multi/Interdisciplinary Studies, Other	309999
	B.A.	COMPUTER SCIENCE	Computer and Information Sciences, General	110101
	B.S.	COMPUTER SCIENCE	Computer and Information Sciences, General	110101
	B.A.	CRIMINAL JUSTICE	Criminal Justice and Corrections	430104
	B.A.	ECONOMICS	Economics	450601
	B.A.	ENGLISH	English Language and Literature, General	230101
	B.S.	FINANCE	Finance and Financial Management Services	520801
	B.A.	FRENCH	Romance Languages, Literatures, and Linguistics	160901
	B.A.	GENERAL SCIENCE	Biological and Physical Sciences	300101
	B.A.	GERMAN	Germanic Languages, Literatures, and Linguistics	160501
	B.A.	HISTORY	History	540101
	B.H.M.	HOSPITALITY MANAGEMENT	Hospitality Administration/Management	520901
	B.A.	INTERDISCIPLINARY/INDIVIDUAL/INTERDEPARTMENTAL MAJOR	Multi/Interdisciplinary Studies, Other	309999
	B.S.	INTERDISCIPLINARY/INDIVIDUAL/INTERDEPARTMENTAL MAJOR	Multi/Interdisciplinary Studies, Other	309999
	B.A.	LIBERAL STUDIES	Liberal Arts and Sciences, General Studies and Humanities	240101
	B.S.	MANAGEMENT	Business Administration, Management and Operations	520201
	B.S.	MARKETING	Marketing	521401
	B.A.	MATHEMATICS	Mathematics	270101
	B.A.	MUSIC	Music	500901
	B.S.	NURSING	Nursing	511601
	B.A.	PHILOSOPHY	Philosophy	380101
	B.A.	PHYSICS	Physics	400801
	B.A.	POLITICAL SCIENCE	Political Science and Government	451001
	B.A.	PSYCHOLOGY	Psychology, General	420101
	B.A.	SOCIAL WORK	Social Work	440701
	B.A.	SOCIOLOGY	Sociology	451101
	B.A.	SPANISH	Romance Languages, Literatures, and Linguistics	160905
	B.A.	THEATER ARTS	Drama/Theatre Arts and Stagecraft	500501
	B.A.	URBAN STUDIES	Urban Studies/Affairs	451201
POST-BACCALAUREATE	CERTIF	SCHOOL NURSE	Nursing	511699
MASTER'S	M.ACC.	ACCOUNTING	Accounting and Related Services	520301
	M.S.	BIOLOGY	Biology, General	260101
	M.S.T.	BIOLOGY	Biology, General	260101

LEVEL	DEGREE/ AWARD	INSTITUTIONAL PROGRAM TITLE	CIP GROUP TITLE	CODE
		RUTGERS UNIVERSITY / CAMDEN		
MASTER'S	M.B.A.	BUSINESS ADMINISTRATION	Business Administration, Management and Operations	520201
	M.S.	CHEMISTRY	Chemistry	400501
	M.A.	CHILDHOOD STUDIES	Multi/Interdisciplinary Studies, Other	309999
	M.A.	ENGLISH	English Language and Literature, General	230101
	M.A.	HISTORY	History	540101
	M.A.	LIBERAL STUDIES	Liberal Arts and Sciences, General Studies and Humanities	240101
	M.S.	MATHEMATICAL SCIENCES	Mathematics and Statistics, Other	279999
	M.P.T.	PHYSICAL THERAPY (W/ UMDNJ)	Rehabilitation and Therapeutic Professions	512308
	M.A.	PSYCHOLOGY	Psychology, General	420101
	M.P.A.	PUBLIC ADMINISTRATION	Public Administration	440401
	M.P.H.	PUBLIC HEALTH (W/ UMDNJ)	Public Health	512201
DOCTORAL	PH.D.	CHILDHOOD STUDIES	Multi/Interdisciplinary Studies, Other	309999
	PH.D.	NEUROSCIENCES (W/ UMDNJ)	Neuroscience	302401
PROFESSIONAL	J.D.	LAW	Law	220101
		RUTGERS UNIVERSITY / NEW BRUNSWICK		
PRE-BACHELOR'S	CERTIF	ENVIRONMENTAL PLANNING	Environmental Design	040401
BACHELOR'S	B.S.	ACCOUNTING	Accounting and Related Services	520301
	B.A.	AFRICANA STUDIES	Ethnic, Cultural Minority, and Gender Studies	050201
	B.S.	AGRICULTURAL SCIENCE	Agriculture, General	010000
	B.A.	AMERICAN STUDIES	Area Studies	050102
	B.S.	ANIMAL SCIENCES	Animal Sciences	010901
	B.A.	ANTHROPOLOGY	Anthropology	450201
	B.S.	APPLIED SCIENCES IN ENGINEERING	Engineering Science	141301
	B.A.	ART HISTORY	Fine and Studio Art	500703
	B.S.	ASTROPHYSICS	Astronomy and Astrophysics	400202
	B.A.	BIOCHEMISTRY	Biochemistry, Biophysics and Molecular Biology	260202
	B.S.	BIOENVIRONMENTAL ENGINEERING	Agricultural/Biological Engineering and Bioengineering	140301
	B.A.	BIOLOGICAL SCIENCES	Biology, General	260101
	B.S.	BIOLOGICAL SCIENCES	Biology, General	260101
	B.A.	BIOMATHEMATICS	Biomathematics and Bioinformatics	261101
	B.S.	BIOMEDICAL ENGINEERING	Biomedical/Medical Engineering	140501
	B.S.	BIOTECHNOLOGY	Biotechnology	261201
	B.A.	CELL BIOLOGY & NEUROSCIENCE	Cell/Cellular Biology and Anatomical Sciences	260401
	B.S.	CHEMICAL ENGINEERING	Chemical Engineering	140701
	B.A.	CHEMISTRY	Chemistry	400501
	B.A.	CHINESE	East Asian Languages, Literatures, and Linguistics	160301
	B.S.	CIVIL ENGINEERING	Civil Engineering	140801
	B.A.	CLASSICS	Classics and Classical Languages, Literatures, and Linguistics	161200
	B.A.	COMMUNICATION	Communication and Media Studies	090101

LEVEL	DEGREE/ AWARD	INSTITUTIONAL PROGRAM TITLE	CIP GROUP TITLE	CODE
		RUTGERS UNIVERSITY / NEW BRUNSWICK		
BACHELOR'S	B.A.	COMPARATIVE LITERATURE	Linguistic, Comparative, and Related Language Studies and Services	160104
	B.A.	COMPUTER SCIENCE	Computer and Information Sciences, General	110101
	B.S.	COMPUTER SCIENCE	Computer and Information Sciences, General	110101
	B.S.	CRIMINAL JUSTICE	Criminal Justice and Corrections	430103
	B.A.	DANCE	Dance	500301
	B.F.A.	DANCE	Dance	500301
	B.A.	EAST ASIAN LANGUAGES & AREA STUDIES	Area Studies	050104
	B.S.	ECOLOGY AND NATURAL RESOURCES	Natural Resources Management and Policy	030201
	B.A.	ECONOMICS	Economics	450601
	B.S.	ELECTRICAL & COMPUTER ENGINEERING	Electrical, Electronics and Communications Engineering	141001
	B.A.	ENGLISH	English Language and Literature, General	230101
	B.S.	ENVIRONMENTAL & BUSINESS ECONOMICS	Social Sciences, Other	459999
	B.S.	ENVIRONMENTAL PLANNING & DESIGN	Environmental Design	040401
	B.S.	ENVIRONMENTAL POLICY/ INSTITUTIONS & BEHAVIOR	Natural Resources Conservation and Research	030103
	B.S.	ENVIRONMENTAL SCIENCES	Natural Resources Conservation and Research	030104
	B.S.	EVOLUTIONARY ANTHROPOLOGY	Anthropology	450201
	B.S.	EXERCISE SCIENCE & SPORT STUDIES	Teacher Education and Professional Development, Specific Subject Areas	131314
	B.S.	FINANCE	Finance and Financial Management Services	520801
	B.S.	FOOD SCIENCE	Food Science and Technology	011001
	B.A.	FRENCH	Romance Languages, Literatures, and Linguistics	160901
	B.A.	GENETICS	Genetics	260802
	B.A.	GENETICS & MICROBIOLOGY	Genetics	260804
	B.A.	GEOGRAPHY	Geography and Cartography	450701
	B.S.	GEOLOGICAL SCIENCES	Geological and Earth Sciences/Geosciences	400601
	B.A.	GERMAN	Germanic Languages, Literatures, and Linguistics	160501
	B.A.	HISTORY	History	540101
	B.A.	HISTORY & FRENCH	History	540199
	B.A.	HISTORY & POLITICAL SCIENCE	History	540101
	B.S.	INDUSTRIAL AND SYSTEMS ENGINEERING	Industrial Engineering	143501
	B.A.	INFORMATION TECHNOLOGY & INFORMATICS	Information Science/Studies	110401
	B.A.	INTERDISCIPLINARY/INDIVIDUAL/INTERDEPARTMENTAL MAJOR	Multi/Interdisciplinary Studies, Other	309999
	B.S.	INTERDISCIPLINARY/INDIVIDUAL/INTERDEPARTMENTAL MAJOR	Multi/Interdisciplinary Studies, Other	309999
	B.A.	ITALIAN	Romance Languages, Literatures, and Linguistics	160902
	B.A.	JEWISH STUDIES	Religion/Religious Studies	380206
	B.A.	JOURNALISM & MASS MEDIA	Journalism	090401
	B.A.	LABOR STUDIES	Human Resources Management and Services	521002
	B.A.	LATIN AMERICAN STUDIES	Area Studies	050107
	B.A.	LINGUISTICS	Linguistic, Comparative, and Related Language Studies and Services	160102
	B.S.	MANAGEMENT	Business Administration, Management and Operations	520201

LEVEL	DEGREE/ AWARD	INSTITUTIONAL PROGRAM TITLE	CIP GROUP TITLE	CODE
		RUTGERS UNIVERSITY / NEW BRUNSWICK		
BACHELOR'S	B.S.	MANAGEMENT SCIENCE & INFORMATION SYSTEMS	Management Sciences and Quantitative Methods	521301
	B.S.	MARINE SCIENCES	Ecology, Evolution, Systematics, and Population Biology	261302
	B.S.	MARKETING	Marketing	521401
	B.S.	MATERIALS SCIENCE AND ENGINEERING	Ceramic Sciences and Engineering	140601
	B.A.	MATHEMATICS	Mathematics	270101
	B.S.	MATHEMATICS	Mathematics	270101
	B.S.	MECHANICAL ENGINEERING	Mechanical Engineering	141901
	B.S.	MEDICAL TECHNOLOGY	Clinical/Medical Laboratory Science and Allied Professions	511005
	B.A.	MEDIEVAL STUDIES	Medieval and Renaissance Studies	301301
	B.S.	METEOROLOGY	Atmospheric Sciences and Meteorology	400404
	B.S.	MICROBIOLOGY	Microbiological Sciences and Immunology	260502
	B.A.	MIDDLE EASTERN STUDIES	Area Studies	050108
	B.S.	MOLECULAR BIOLOGY & BIOCHEMISTRY	Biochemistry, Biophysics and Molecular Biology	260204
	B.A.	MUSIC	Music	500901
	B.MUS.	MUSIC	Music	500903
	B.S.	NUTRITIONAL SCIENCES	Nutrition Sciences	301901
	B.S.	PHARMACY	Pharmacy, Pharmaceutical Sciences, and Administration	512099
	B.A.	PHILOSOPHY	Philosophy	380101
	B.A.	PHYSICS	Physics	400801
	B.S.	PHYSICS	Physics	400801
	B.A.	PLANNING AND PUBLIC POLICY	Urban Studies/Affairs	451201
	B.S.	PLANT SCIENCE	Plant Sciences	011101
	B.A.	POLITICAL SCIENCE	Political Science and Government	451001
	B.A.	PORTUGUESE	Romance Languages, Literatures, and Linguistics	160904
	B.A.	PSYCHOLOGY	Psychology, General	420101
	B.S.	PSYCHOLOGY	Psychology, General	420101
	B.S.	PUBLIC HEALTH	Public Health	512201
	B.A.	PUERTO RICAN & HISPANIC CARIBBEAN STUDIES	Ethnic, Cultural Minority, and Gender Studies	050203
	B.A.	RELIGION	Religion/Religious Studies	380201
	B.A.	RUSSIAN	Slavic, Baltic and Albanian Languages, Literatures, and Linguistics	160402
	B.A.	SOCIAL WORK	Social Work	440701
	B.A.	SOCIOLOGY	Sociology	451101
	B.A.	SPANISH	Romance Languages, Literatures, and Linguistics	160905
	B.A.	STATISTICS	Statistics	270501
	B.A.	STATISTICS/MATHEMATICS	Statistics	270501
	B.A.	THEATER ARTS	Drama/Theatre Arts and Stagecraft	500501
	B.F.A.	THEATER ARTS	Drama/Theatre Arts and Stagecraft	500501
	B.A.	VISUAL ARTS	Fine and Studio Art	500701
	B.F.A.	VISUAL ARTS	Fine and Studio Art	500701

LEVEL	DEGREE/ AWARD	INSTITUTIONAL PROGRAM TITLE	CIP GROUP TITLE	CODE
		RUTGERS UNIVERSITY / NEW BRUNSWICK		
BACHELOR'S	B.A.	WOMEN'S STUDIES	Ethnic, Cultural Minority, and Gender Studies	050207
MASTER'S	CERTIF	BIOETHICS & PUBLIC HEALTH (W/ UMDNJ)	Public Health	512299
	CERTIF	ENVIRONMENTAL RESOURCE MONITORING	Natural Resources Conservation and Research	030103
	CERTIF	INTERNATIONAL AGRICULTURE/ENVIRONMENT	International Agriculture	010701
	CERTIF	LIBRARY SERVICES	Library Science/Librarianship	250101
	CERTIF	P-3 EDUCATION CERTIFICATION	Teacher Education and Professional Development, Specific Levels and Meth	131210
	M.ACCY.	ACCOUNTING	Accounting and Related Services	520301
	M.ED.	ADMINISTRATION & SUPERVISION/ELEMENTARY EDUCATION	Educational Administration and Supervision	130408
	M.ED.	ADMINISTRATION & SUPERVISION/SECONDARY EDUCATION	Educational Administration and Supervision	130409
	M.ED.	ADULT & CONTINUING EDUCATION	Teacher Education and Professional Development, Specific Levels and Meth	131201
	M.S.	ANIMAL SCIENCES	Animal Sciences	010901
	M.A.	ANTHROPOLOGY	Anthropology	450201
	M.PHIL.	ANTHROPOLOGY	Anthropology	450201
	M.A.	ART HISTORY	Fine and Studio Art	500703
	M.PHIL.	ART HISTORY	Fine and Studio Art	500703
	DIPLOMA	ARTIST'S DIPLOMA IN MUSIC	Music	500903
	M.S.	ATMOSPHERIC SCIENCE	Atmospheric Sciences and Meteorology	400499
	M.S.	BIOCHEMISTRY	Biochemistry, Biophysics and Molecular Biology	260202
	M.S.	BIOCHEMISTRY (W/ UMDNJ)	Biochemistry, Biophysics and Molecular Biology	260202
	M.S.	BIOENVIRONMENTAL ENGINEERING	Agricultural/Biological Engineering and Bioengineering	140301
	M.S.	BIOMEDICAL ENGINEERING	Biomedical/Medical Engineering	140501
	M.S.	BIOMEDICAL ENGINEERING (W/ UMDNJ)	Biomedical/Medical Engineering	140501
	M.S.	CELL & DEVELOPMENTAL BIOLOGY	Cell/Cellular Biology and Anatomical Sciences	260401
	M.S.	CELL & DEVELOPMENTAL BIOLOGY (W/ UMDNJ)	Cell/Cellular Biology and Anatomical Sciences	260401
	M.S.	CELLULAR & MOLECULAR PHARMACOLOGY	Pharmacology and Toxicology	261001
	M.S.	CELLULAR & MOLECULAR PHARMACOLOGY (W/ UMDNJ)	Pharmacology and Toxicology	261001
	M.PHIL.	CERAMIC & MATERIALS SCIENCE & ENGINEERNG	Ceramic Sciences and Engineering	140601
	M.S.	CERAMIC & MATERIALS SCIENCE & ENGINEERNG	Ceramic Sciences and Engineering	140601
	M.PHIL.	CHEMICAL & BIOCHEMICAL ENGINEERING	Chemical Engineering	140701
	M.S.	CHEMICAL & BIOCHEMICAL ENGINEERING	Chemical Engineering	140701
	M.PHIL.	CHEMISTRY & CHEMICAL BIOLOGY	Chemistry	400501
	M.S.	CHEMISTRY & CHEMICAL BIOLOGY	Chemistry	400501
	M.S.T.	CHEMISTRY & CHEMICAL BIOLOGY	Chemistry	400501
	M.C.R.P.	CITY & REGIONAL PLANNING	City/Urban, Community and Regional Planning	040301
	M.C.R.S.	CITY & REGIONAL STUDIES	City/Urban, Community and Regional Planning	040301
	M.PHIL.	CIVIL & ENVIRONMENTAL ENGINEERING	Civil Engineering	140801
	M.S.	CIVIL & ENVIRONMENTAL ENGINEERING	Civil Engineering	140801
	M.A.	CLASSICS	Classics and Classical Languages, Literatures, and Linguistics	161200
	M.A.T.	CLASSICS	Classics and Classical Languages, Literatures, and Linguistics	161200

LEVEL	DEGREE/ AWARD	INSTITUTIONAL PROGRAM TITLE	CIP GROUP TITLE	CODE
		RUTGERS UNIVERSITY / NEW BRUNSWICK		
MASTER'S	M.PHIL.	CLASSICS	Classics and Classical Languages, Literatures, and Linguistics	161200
	M.C.I.S.	COMMUNICATION & INFORMATION STUDIES	Information Science/Studies	110401
	M.PHIL.	COMMUNICATION/INFORMATION/LIBRARY STUDIES	Library Science/Librarianship	250101
	M.A.	COMPARATIVE LITERATURE	Linguistic, Comparative, and Related Language Studies and Services	160104
	M.PHIL.	COMPUTER SCIENCE	Computer and Information Sciences, General	110101
	M.S.	COMPUTER SCIENCE	Computer and Information Sciences, General	110101
	M.ED.	COUNSELING PSYCHOLOGY	Student Counseling and Personnel Services	131101
	M.A.	CRIMINAL JUSTICE	Criminal Justice and Corrections	430104
	M.F.A.	CRITICAL WRITING	English Language and Literature/Letters, Other	239999
	M.F.A.	DANCE	Dance	500301
	M.S.	ECOLOGY & EVOLUTION	Ecology, Evolution, Systematics, and Population Biology	261301
	M.A.	ECONOMICS	Economics	450601
	M.PHIL.	ECONOMICS	Economics	450601
	M.A.	EDUCATION [OPTION WITHIN PH.D. PROGRAM ONLY]	Education, General	130101
	M.L.S.	EDUCATIONAL MEDIA SERVICES	Library Science, Other	259999
	M.ED.	EDUCATIONAL STATISTICS & MEASUREMENT	Educational Assessment, Evaluation, and Research	130603
	M.PHIL.	ELECTRICAL & COMPUTER ENGINEERING	Electrical, Electronics and Communications Engineering	141001
	M.S.	ELECTRICAL & COMPUTER ENGINEERING	Electrical, Electronics and Communications Engineering	141001
	M.ED.	ELEMENTARY/EARLY CHILDHOOD EDUCATION	Teacher Education and Professional Development, Specific Levels and Meth	131202
	M.ED.	ENGLISH EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131305
	M.S.	ENTOMOLOGY	Zoology/Animal Biology	260702
	M.S.	ENVIRONMENTAL SCIENCES	Natural Resources Conservation and Research	030104
	M.S.	FOOD & BUSINESS ECONOMICS	Agricultural Business and Management	010103
	M.PHIL.	FOOD SCIENCE	Food Science and Technology	011001
	M.S.	FOOD SCIENCE	Food Science and Technology	011001
	M.A.	FRENCH	Romance Languages, Literatures, and Linguistics	160901
	M.A.T.	FRENCH	Romance Languages, Literatures, and Linguistics	160901
	M.A.	GEOGRAPHY	Geography and Cartography	450701
	M.PHIL.	GEOGRAPHY	Geography and Cartography	450701
	M.S.	GEOGRAPHY	Geography and Cartography	450701
	M.PHIL.	GEOLOGICAL SCIENCES	Geological and Earth Sciences/Geosciences	400601
	M.S.	GEOLOGICAL SCIENCES	Geological and Earth Sciences/Geosciences	400601
	M.A.	GERMAN	Germanic Languages, Literatures, and Linguistics	160501
	M.PHIL.	GERMAN	Germanic Languages, Literatures, and Linguistics	160501
	M.S.	HEALTH CARE MANAGEMENT (W/ UMDNJ)	Health and Medical Administrative Services	510701
	M.A.	HISTORY	History	540101
	M.H.R.M.	HUMAN RESOURCE MANAGEMENT	Human Resources Management and Services	521001
	M.S.	INDUSTRIAL & SYSTEMS ENGINEERING	Industrial Engineering	143501
	M.L.S.	INFORMATION SCIENCE	Library Science/Librarianship	250101

LEVEL	DEGREE/ AWARD	INSTITUTIONAL PROGRAM TITLE	CIP GROUP TITLE	CODE
		RUTGERS UNIVERSITY / NEW BRUNSWICK		
MASTER'S	M.A.	ITALIAN	Romance Languages, Literatures, and Linguistics	160902
	M.A.T.	ITALIAN	Romance Languages, Literatures, and Linguistics	160902
	M.PHIL.	ITALIAN	Romance Languages, Literatures, and Linguistics	160902
	M.L.E.R.	LABOR & EMPLOYMENT RELATIONS	Human Resources Management and Services	521001
	M.ED.	LANGUAGE EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131306
	M.ED.	LEARNING/COGNITION & DEVELOPMENT	Educational Psychology	421801
	M.L.I.S.	LIBRARY & INFORMATION SCIENCE	Library Science/Librarianship	250101
	M.L.S.	LIBRARY ADMINISTRATION	Library Science, Other	259999
	M.A.	LINGUISTICS	Linguistic, Comparative, and Related Language Studies and Services	160102
	M.ED.	LITERACY EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131399
	M.A.	LITERATURES IN ENGLISH	English Language and Literature, General	230101
	M.PHIL.	LITERATURES IN ENGLISH	English Language and Literature, General	230101
	M.S.	MATHEMATICS	Mathematics	270101
	M.ED.	MATHEMATICS EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131311
	M.PHIL.	MECHANICAL & AEROSPACE ENGINEERING	Mechanical Engineering	141901
	M.S.	MECHANICAL & AEROSPACE ENGINEERING	Mechanical Engineering	141901
	M.PHIL.	MECHANICS	Mechanical Engineering	141901
	M.S.	MECHANICS	Mechanical Engineering	141901
	M.S.	MEDICINAL CHEMISTRY	Pharmacy, Pharmaceutical Sciences, and Administration	512004
	M.PHIL.	MICROBIOLOGY & MOLECULAR GENETICS	Microbiological Sciences and Immunology	260503
	M.S.	MICROBIOLOGY & MOLECULAR GENETICS	Genetics	260802
	M.S.	MICROBIOLOGY & MOLECULAR GENETICS (W/UM)	Genetics	260802
	M.A.	MUSIC	Music	500901
	M.M.	MUSIC	Music	500901
	M.PHIL.	MUSIC	Music	500901
	M.M.	MUSIC EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131312
	M.S.	NEUROSCIENCE (W/ UMDNJ)	Neuroscience	302401
	M.PHIL.	NUTRITIONAL SCIENCES	Nutrition Sciences	301901
	M.S.	NUTRITIONAL SCIENCES	Nutrition Sciences	301901
	M.S.	OCEANOGRAPHY	Geological and Earth Sciences/Geosciences	400607
	M.S.	OPERATIONS RESEARCH	Operations Research	143701
	M.S.	PHARMACEUTICAL SCIENCE	Pharmacy, Pharmaceutical Sciences, and Administration	512004
	M.A.	PHILOSOPHY	Philosophy	380101
	M.PHIL.	PHILOSOPHY	Philosophy	380101
	M.S.T.	PHYSICS	Physics	400801
	M.PHIL.	PHYSICS & ASTRONOMY	Physics	400899
	M.S.	PHYSICS & ASTRONOMY	Physics	400899
	M.S.	PHYSIOLOGY & INTEGRATIVE BIOLOGY (W/ UMDNJ)	Physiology, Pathology and Related Sciences	260901
	M.PHIL.	PLANT BIOLOGY	Botany/Plant Biology	260301

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		RUTGERS UNIVERSITY / NEW BRUNSWICK		
MASTER'S	M.S.	PLANT BIOLOGY	Botany/Plant Biology	260301
	M.A.	POLITICAL SCIENCE	Political Science and Government	451001
	M.PHIL.	POLITICAL SCIENCE	Political Science and Government	451001
	PSY.M.	PROFESSIONAL PSYCHOLOGY	Psychology, General	420101
	M.A.	PSYCHOLOGY	Psychology, General	420101
	M.S.	PSYCHOLOGY	Psychology, General	420101
	M.P.A.P	PUBLIC AFFAIRS & POLITICS	Public Policy Analysis	440501
	M.P.H.	PUBLIC HEALTH (W/ UMDNJ)	Public Health	512201
	M.P.P.	PUBLIC POLICY	Public Policy Analysis	440501
	M.Q.F.	QUANTITATIVE FINANCE	Finance and Financial Management Services	520801
	M.ED.	READING	Teacher Education and Professional Development, Specific Subject Areas	131315
	M.ED.	SCHOOL BUSINESS ADMINISTRATION	Educational Administration and Supervision	130401
	M.ED.	SCIENCE EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131316
	M.ED.	SOCIAL & PHILOSOPHICAL FOUNDATIONS	Social and Philosophical Foundations of Education	130901
	M.ED.	SOCIAL STUDIES EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131318
	M.S.W.	SOCIAL WORK	Social Work	440701
	M.A.	SOCIOLOGY	Sociology	451101
	M.PHIL.	SOCIOLOGY	Sociology	451101
	M.A.	SPANISH	Romance Languages, Literatures, and Linguistics	160905
	M.A.T.	SPANISH	Romance Languages, Literatures, and Linguistics	160905
	M.ED.	SPECIAL EDUCATION	Special Education and Teaching	131001
	M.PHIL.	STATISTICS	Statistics	270501
	M.S.	STATISTICS AND BIOSTATISTICS	Statistics	270501
	M.ACCY.	TAXATION	Accounting and Related Services	520301
	M.F.A.	THEATER ARTS	Drama/Theatre Arts and Stagecraft	500501
	M.T.A.	THEATER ARTS	Drama/Theatre Arts and Stagecraft	500501
	M.S.	TOXICOLOGY	Pharmacology and Toxicology	261004
	M.S.	TOXICOLOGY (W/ UMDNJ)	Pharmacology and Toxicology	261004
	M.F.A.	VISUAL ARTS	Fine and Studio Art	500701
	M.ED.	VOCATIONAL-TECHNICAL EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131319
	M.A.	WOMEN'S STUDIES	Ethnic, Cultural Minority, and Gender Studies	050207
PROFESSIONAL	ED.S.	EDUCATIONAL ADMINISTRATION & SUPERVISION	Educational Administration and Supervision	130401
	ED.S.	ELEMENTARY/EARLY CHILDHOOD EDUCATION	Teacher Education and Professional Development, Specific Levels and Meth	131202
	ED.S.	LANGUAGE EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131306
	ED.S.	LITERACY EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131399
	ED.S.	MATHEMATICS EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131311
	ED.S.	SCIENCE EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131316
	ED.S.	SOCIAL & PHILOSOPHICAL FOUNDATIONS	Social and Philosophical Foundations of Education	130901
	ED.S.	SOCIAL STUDIES EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131318

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		RUTGERS UNIVERSITY / NEW BRUNSWICK		
PROFESSIONAL	ED.S.	VOCATIONAL-TECHNICAL EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131319
DOCTORAL	PH.D.	ANIMAL SCIENCES	Animal Sciences	010901
	PH.D.	ANTHROPOLOGY	Anthropology	450201
	PH.D.	ART HISTORY	Fine and Studio Art	500703
	PH.D.	ATMOSPHERIC SCIENCE	Atmospheric Sciences and Meteorology	400499
	PH.D.	BIOCHEMISTRY	Biochemistry, Biophysics and Molecular Biology	260202
	PH.D.	BIOCHEMISTRY (W/ UMDNJ)	Biochemistry, Biophysics and Molecular Biology	260202
	PH.D.	BIOMAPS: PROGRAM IN QUANTITATIVE BIOLOGY	Biological and Physical Sciences	300101
	PH.D.	BIOMEDICAL ENGINEERING (W/ UMDNJ)	Biomedical/Medical Engineering	140501
	PH.D.	CELL & DEVELOPMENTAL BIOLOGY (W/ UMDNJ)	Cell/Cellular Biology and Anatomical Sciences	260401
	PH.D.	CELLULAR & MOLECULAR PHARMACOLOGY	Pharmacology and Toxicology	261001
	PH.D.	CELLULAR & MOLECULAR PHARMACOLOGY (W/ UMDNJ)	Pharmacology and Toxicology	261001
	PH.D.	CERAMIC & MATERIALS SCIENCE & ENGINEERNG	Ceramic Sciences and Engineering	140601
	PH.D.	CHEMICAL & BIOCHEMICAL ENGINEERING	Chemical Engineering	140701
	PH.D.	CHEMISTRY & CHEMICAL BIOLOGY	Chemistry	400501
	PH.D.	CIVIL & ENVIRONMENTAL ENGINEERING	Civil Engineering	140801
	PH.D.	CLASSICS	Classics and Classical Languages, Literatures, and Linguistics	161200
	PH.D.	COMMUNICATION/INFORMATION/LIBRARY STUDIES	Library Science/Librarianship	250101
	PH.D.	COMPARATIVE LITERATURE	Linguistic, Comparative, and Related Language Studies and Services	160104
	PH.D.	COMPUTER SCIENCE	Computer and Information Sciences, General	110101
	ED.D.	COUNSELING PSYCHOLOGY	Student Counseling and Personnel Services	131101
	PH.D.	ECOLOGY & EVOLUTION	Ecology, Evolution, Systematics, and Population Biology	261301
	PH.D.	ECONOMICS	Economics	450601
	PH.D.	EDUCATION	Education, General	130101
	ED.D.	EDUCATIONAL ADMINISTRATION & SUPERVISION	Educational Administration and Supervision	130401
	ED.D.	EDUCATIONAL STATISTICS & MEASUREMENT	Educational Assessment, Evaluation, and Research	130603
	PH.D.	ELECTRICAL & COMPUTER ENGINEERING	Electrical, Electronics and Communications Engineering	141001
	ED.D.	ELEMENTARY/EARLY CHILDHOOD EDUCATION	Teacher Education and Professional Development, Specific Levels and Meth	131202
	PH.D.	ENTOMOLOGY	Zoology/Animal Biology	260702
	PH.D.	ENVIRONMENTAL SCIENCES	Natural Resources Conservation and Research	030104
	PH.D.	FOOD SCIENCE	Food Science and Technology	011001
	PH.D.	FRENCH	Romance Languages, Literatures, and Linguistics	160901
	PH.D.	GEOGRAPHY	Geography and Cartography	450701
	PH.D.	GEOLOGICAL SCIENCES	Geological and Earth Sciences/Geosciences	400601
	PH.D.	GERMAN	Germanic Languages, Literatures, and Linguistics	160501
	PH.D.	HISTORY	History	540101
	PH.D.	INDUSTRIAL & SYSTEMS ENGINEERING	Industrial Engineering	143501
	PH.D.	INDUSTRIAL RELATIONS & HUMAN RESOURCES	Human Resources Management and Services	521002
	PH.D.	INTERDISCIPLINARY PROGRAM	Multi/Interdisciplinary Studies, Other	309999

LEVEL	DEGREE/ AWARD	INSTITUTIONAL PROGRAM TITLE	CIP GROUP TITLE	CODE
		RUTGERS UNIVERSITY / NEW BRUNSWICK		
DOCTORAL	PH.D.	ITALIAN	Romance Languages, Literatures, and Linguistics	160902
	ED.D.	LANGUAGE EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131306
	ED.D.	LEARNING/COGNITION & DEVELOPMENT	Educational Psychology	421801
	PH.D.	LINGUISTICS	Linguistic, Comparative, and Related Language Studies and Services	160102
	ED.D.	LITERACY EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131399
	PH.D.	LITERATURES IN ENGLISH	English Language and Literature, General	230101
	PH.D.	MATHEMATICS	Mathematics	270101
	ED.D.	MATHEMATICS EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131311
	PH.D.	MECHANICAL & AEROSPACE ENGINEERING	Mechanical Engineering	141901
	PH.D.	MECHANICS	Mechanical Engineering	141901
	PH.D.	MEDICINAL CHEMISTRY	Pharmacy, Pharmaceutical Sciences, and Administration	512004
	PH.D.	MICROBIOLOGY & MOLECULAR GENETICS	Genetics	260802
	PH.D.	MICROBIOLOGY & MOLECULAR GENETICS (W/UM)	Genetics	260802
	D.M.A.	MUSIC	Music	500903
	PH.D.	MUSIC	Music	500901
	PH.D.	NEUROSCIENCES (W/ UMDNJ)	Neuroscience	302401
	PH.D.	NEUROSCIENCES (W/UMDNJ)	Neuroscience	302401
	PH.D.	NUTRITIONAL SCIENCES	Nutrition Sciences	301901
	PH.D.	OCEANOGRAPHY	Geological and Earth Sciences/Geosciences	400607
	PH.D.	OPERATIONS RESEARCH	Operations Research	143701
	PH.D.	PHARMACEUTICAL SCIENCE	Pharmacy, Pharmaceutical Sciences, and Administration	512004
	PH.D.	PHILOSOPHY	Philosophy	380101
	PH.D.	PHYSICS & ASTRONOMY	Physics	400899
	PH.D.	PHYSIOLOGY & INTEGRATIVE BIOLOGY (W/UMDNJ)	Physiology, Pathology and Related Sciences	260901
	PH.D.	PLANNING & PUBLIC POLICY	City/Urban, Community and Regional Planning	040301
	PH.D.	PLANT BIOLOGY	Botany/Plant Biology	260301
	PH.D.	POLITICAL SCIENCE	Political Science and Government	451001
	PSY.D.	PROFESSIONAL PSYCHOLOGY	Psychology, General	420101
	PH.D.	PSYCHOLOGY	Psychology, General	420101
	DR.P.H.	PUBLIC HEALTH (W/ UMDNJ)	Public Health	512201
	PH.D.	PUBLIC HEALTH (W/ UMDNJ)	Public Health	512201
	ED.D.	SCIENCE EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131316
	ED.D.	SOCIAL & PHILOSOPHICAL FOUNDATIONS	Social and Philosophical Foundations of Education	130901
	ED.D.	SOCIAL STUDIES EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131318
	PH.D.	SOCIAL WORK	Social Work	440701
	PH.D.	SOCIOLOGY	Sociology	451101
	PH.D.	SPANISH	Romance Languages, Literatures, and Linguistics	160905
	ED.D.	SPECIAL EDUCATION	Special Education and Teaching	131001
	PH.D.	STATISTICS AND BIOSTATISTICS	Statistics	270501

LEVEL	DEGREE/ AWARD	INSTITUTIONAL PROGRAM TITLE	CIP GROUP TITLE	CODE
		RUTGERS UNIVERSITY / NEW BRUNSWICK		
DOCTORAL	PH.D.	TOXICOLOGY	Pharmacology and Toxicology	261004
	PH.D.	TOXICOLOGY (W/ UMDNJ)	Pharmacology and Toxicology	261004
	ED.D.	VOCATIONAL-TECHNICAL EDUCATION	Teacher Education and Professional Development, Specific Subject Areas	131319
	PH.D.	WOMENS & GENDER STUDIES	Ethnic, Cultural Minority, and Gender Studies	050207
PROFESSIONAL	PHARM.D	PHARMACY	Pharmacy, Pharmaceutical Sciences, and Administration	512001
		RUTGERS UNIVERSITY / NEWARK		
BACHELOR'S	B.S.	ACCOUNTING	Accounting and Related Services	520301
	B.A.	AFRO-AMERICAN & AFRICAN STUDIES	Ethnic, Cultural Minority, and Gender Studies	050201
	B.S.	ALLIED HEALTH TECHNOLOGIES (W/UMDNJ)	Allied Health Diagnostic, Intervention, and Treatment Professions	510999
	B.A.	AMERICAN STUDIES	Area Studies	050102
	B.A.	ANCIENT & MEDIEVAL CIVILIZATIONS	Classical and Ancient Studies	302201
	B.A.	ANTHROPOLOGY	Anthropology	450201
	B.A.	APPLIED MATHEMATICS (W/ NJIT)	Applied Mathematics	270301
	B.A.	APPLIED PHYSICS (W/ NJIT)	Physics	400899
	B.A.	ART	Fine and Studio Art	500701
	B.A.	BIOLOGY	Biology, General	260101
	B.S.	BIOLOGY	Biology, General	260101
	B.A.	BIOLOGY (W/ NJIT)	Biology, General	260101
	B.S.	BIOLOGY (W/ NJIT)	Biology, General	260101
	B.A.	BOTANY	Botany/Plant Biology	260301
	B.A.	CENTRAL & EASTERN EUROPEAN STUDIES	Area Studies	050105
	B.A.	CHEMISTRY	Chemistry	400501
	B.S.	CLINICAL LABORATORY SCIENCES (W/ UMDNJ)	Clinical/Medical Laboratory Science and Allied Professions	511005
	B.A.	COMPUTER SCIENCE (W/ NJIT)	Computer and Information Sciences, General	110101
	B.S.	CRIMINAL JUSTICE	Criminal Justice and Corrections	430104
	B.A.	ECONOMICS	Economics	450601
	B.A.	ENGLISH	English Language and Literature, General	230101
	B.S.	ENVIRONMENTAL SCIENCES (W/ NJIT)	Natural Resources Conservation and Research	030104
	B.S.	FINANCE	Finance and Financial Management Services	520801
	B.A.	FRENCH	Romance Languages, Literatures, and Linguistics	160901
	B.A.	GEOLOGY	Geological and Earth Sciences/Geosciences	400601
	B.S.	GEOLOGY	Geological and Earth Sciences/Geosciences	400601
	B.S.	GEOSCIENCE ENGINEERING (W/ NJIT)	Geological/Geophysical Engineering	143901
	B.A.	GERMAN	Germanic Languages, Literatures, and Linguistics	160501
	B.A.	HISTORY	History	540101
	B.A.	HISTORY (W/ NJIT)	History	540101
	B.S.	HUMAN COMPUTER INTERACTION (W/NJIT)	Information Science/Studies	110401
	B.A.	INFORMATION SYSTEMS (W/ NJIT)	Information Science/Studies	110401
	B.A.	INTERDISCIPLINARY/INDIVIDUAL/INTERDEPARTMENTAL MAJOR	Multi/Interdisciplinary Studies, Other	309999

LEVEL	DEGREE/ AWARD	INSTITUTIONAL PROGRAM TITLE	CIP GROUP TITLE	CODE
		RUTGERS UNIVERSITY / NEWARK		
BACHELOR'S	B.S.	INTERDISCIPLINARY/INDIVIDUAL/INTERDEPARTMENTAL MAJOR	Multi/Interdisciplinary Studies, Other	309999
	B.A.	ITALIAN	Romance Languages, Literatures, and Linguistics	160902
	B.A.	JOURNALISM	Journalism	090401
	B.S.	MANAGEMENT	Business Administration, Management and Operations	520201
	B.S.	MANAGEMENT INFORMATION SYSTEMS	Management Information Systems and Services	521201
	B.S.	MARKETING	Marketing	521401
	B.A.	MATHEMATICS	Mathematics	270101
	B.S.	MEDICAL TECHNOLOGY	Clinical/Medical Laboratory Science and Allied Professions	511005
	B.A.	MUSIC	Music	500901
	B.S.	NURSING	Nursing	511601
	B.A.	PHILOSOPHY	Philosophy	380101
	B.A.	PHYSICS	Physics	400801
	B.A.	PHYSICS [DUAL W/NJIT B.S. IN INDUSTRIAL ENGINEERING]	Physics	400801
	B.A.	POLITICAL SCIENCE	Political Science and Government	451001
	B.A.	PORTUGUESE & LUSOPHONE WORLD STUDIES	Romance Languages, Literatures, and Linguistics	160904
	B.A.	PSYCHOLOGY	Psychology, General	420101
	B.A.	PUERTO RICAN STUDIES	Ethnic, Cultural Minority, and Gender Studies	050203
	B.A.	SCIENCE/TECHNOLOGY & SOCIETY (W/ NJIT)	Science, Technology and Society	301501
	B.A.	SOCIAL WORK	Social Work	440701
	B.A.	SOCIOLOGY	Sociology	451101
	B.A.	SPANISH	Romance Languages, Literatures, and Linguistics	160905
	B.A.	THEATER ARTS & SPEECH	Drama/Theatre Arts and Stagecraft	500501
	B.F.A.	VISUAL ARTS	Fine and Studio Art	500701
	B.A.	WOMEN'S STUDIES	Ethnic, Cultural Minority, and Gender Studies	050207
	B.A.	ZOOLOGY	Zoology/Animal Biology	260701
MASTER'S	M.ACCY.	ACCOUNTANCY	Accounting and Related Services	520301
	M.A.	AMERICAN STUDIES	Area Studies	050102
	M.S.	APPLIED PHYSICS (W/ NJIT)	Physics	400899
	M.S.	BEHAVIORAL & NEURAL SCIENCES	Neuroscience	302401
	M.S.	BIOLOGY	Biology, General	260101
	M.S.	BIOLOGY (W/ NJIT)	Biology, General	260101
	M.S.	CHEMISTRY	Chemistry	400501
	M.S.	COMPUTATIONAL BIOLOGY (W/NJIT)	Biomathematics and Bioinformatics	261103
	M.A.	CRIMINAL JUSTICE	Criminal Justice and Corrections	430104
	M.A.	ECONOMICS	Economics	450601
	M.A.	ENGLISH	English Language and Literature, General	230101
	M.S.	ENVIRONMENTAL GEOLOGY	Geological and Earth Sciences/Geosciences	400601
	M.S.	ENVIRONMENTAL SCIENCE (W/ NJIT)	Natural Resources Conservation and Research	030104
	M.S.	GLOBAL AFFAIRS	International Relations and Affairs	450901

LEVEL	DEGREE/ AWARD	INSTITUTIONAL PROGRAM TITLE	CIP GROUP TITLE	CODE
		RUTGERS UNIVERSITY / NEWARK		
MASTER'S	M.A.	HISTORY	History	540101
	M.A.T.	HISTORY	History	540101
	M.A.	HISTORY (W/ NJIT)	History	540101
	M.A.T.	HISTORY (W/ NJIT)	History	540101
	M.A.	JAZZ HISTORY & RESEARCH	Music	500910
	M.A.L.S.	LIBERAL STUDIES	Liberal Arts and Sciences, General Studies and Humanities	240101
	M.B.A.	MANAGEMENT	Business Administration, Management and Operations	520201
	M.S.	NURSING	Nursing	511608
	M.A.	POLITICAL SCIENCE	Political Science and Government	451001
	M.B.A.	PROFESSIONAL ACCOUNTING	Accounting and Related Services	520301
	M.A.	PSYCHOLOGY	Psychology, General	420101
	M.P.A.	PUBLIC ADMINISTRATION	Public Administration	440401
	M.P.H.	PUBLIC HEALTH (W/ UMDNJ & NJIT)	Public Health	512201
	M.Q.F.	QUANTITATIVE FINANCE	Finance and Financial Management Services	520801
	M.ACCY.	TAXATION	Accounting and Related Services	520301
DOCTORAL	PH.D.	AMERICAN STUDIES	Area Studies	050102
	PH.D.	APPLIED PHYSICS (W/ NJIT)	Physics	400899
	PH.D.	BEHAVIORAL & NEURAL SCIENCES	Neuroscience	302401
	PH.D.	BIOLOGY	Biology, General	260101
	PH.D.	BIOLOGY (W/ NJIT)	Biology, General	260101
	PH.D.	CHEMISTRY	Chemistry	400501
	PH.D.	CRIMINAL JUSTICE	Criminal Justice and Corrections	430104
	PH.D.	ENVIRONMENTAL SCIENCE (W/ NJIT)	Natural Resources Conservation and Research	030104
	PH.D.	GLOBAL AFFAIRS	International Relations and Affairs	450901
	PH.D.	MANAGEMENT	Business Administration, Management and Operations	520201
	PH.D.	MATHEMATICAL SCIENCES (W/ NJIT)	Mathematics and Statistics, Other	279999
	PH.D.	NEUROSCIENCES (W/ UMDNJ)	Neuroscience	302401
	PH.D.	NURSING	Nursing	511608
	PH.D.	PSYCHOLOGY	Psychology, General	420101
	PH.D.	PUBLIC ADMINISTRATION	Public Administration	440401
	PH.D.	URBAN SYSTEMS (W/NJIT & UMDNJ)	Social Sciences, Other	459999
PROFESSIONAL	J.D.	LAW	Law	220101

MAJOR RESEARCH AND PUBLIC SERVICE ACTIVITIES

R&D EXPENDITURES : YEAR 2005

	Amount ($)
Federally Financed Academic R&D Expenditures	137,609,000
Institutionally Financed Academic R&D Expenditures	100,217,000
Total Academic R&D Expenditures	309,531,000

Note: Dollar amount as reported to the National Science Foundation (NSF) on Form #411 *(Survey of Research and Development Expenditures at Colleges and Universities*).

Exercise Can Protect Against Skin Cancer

While doctors and scientists have long agreed that physical activity has health benefits, Rutgers cancer researcher Allan Conney and his colleagues have found that exercise can even protect against skin cancer.

Their study, reported in the journal Carcinogenesis, found that mice exposed to ultraviolet B light (UVB) – and with continual access to running wheels – took longer to develop skin tumors and developed fewer and smaller tumors than a group of similarly exposed mice that didn't have a gym handy.

In both groups, the number of tumors per mouse increased with time, but animals with access to running wheels had approximately 32 percent fewer tumors than animals without running wheels. Tumor size per mouse in the non-exercising group was on average more than three times greater than for the group with the running wheels.

Professor Allan Conney in his lab. (Courtesy: ScienCentral, Inc.)

As might be expected, the exercising mice ate and drank more but had less body fat than their more sedentary associates, and the number of tumors also decreased with lower body fat.

In another first, the researchers also detected what could be the mechanism responsible for this effect. Subsequent to the studies reported in the journal article, they conducted follow-up work that suggests that exercise enhances UVB-induced apoptosis (programmed cell death) both in the skin – a normal, protective process that removes sun-damaged cells – and in UVB-induced tumors.

While all these conclusions are based on laboratory studies on mice, and it is not yet known whether exercise decreases the risk of sunlight-induced skin cancer in humans. Clinical trials are needed to investigate this further. In bowel cancer, however, evidence from population studies already suggests that physically active people have a reduced risk of developing the disease, but the mechanisms remain unclear.

"This is a big breakthrough because for years no one was able to get the gene for PAP and prove that it was important in making fat," Carman said. Carman said the discovery could have implications for treating conditions that range from obesity to the loss of fat beneath the skin, as seen in HIV

(Credit: GirlsHealth.gov)

patients.

The findings are published in the Journal of Biological Chemistry. The research was funded by the National Institute of General Medical Sciences (NIGMS), part of the National Institutes of Health, and the New Jersey Agricultural Experiment Station.

- Professor Conney's Homepage
- Center for Cancer Prevention Research
- Department of Chemical Biology
- Department of Chemical Biology Research Faculty
- ScienCentral News video to network affiliates

Questions or comments, contact Joseph Blumberg, manager of science communications, blumberg@ur.rutgers.edu or call (732) 932-7084 extension 652.

Coal-to-Diesel Breakthrough Could Cut Oil Imports

Postdoctoral Associate Ritu Ahuja demonstrates catalyst material to graduate student Elizabeth Pelczar and Prof. Alan Goldman.
Credit: Joseph Blumberg

Professor Alan Goldman and his Rutgers team in collaboration with researchers at the University of North Carolina at Chapel Hill have developed a way to convert carbon sources, such as coal, to diesel fuel.

This important advance could significantly cut America's dependence on foreign oil – what President Bush called "an addiction" in his 2006 State of the Union address. According to the U.S. Department of Energy, our 286 billion tons of coal in the ground translate into energy reserves 40 times those of oil. Diesel engines provide the power to move 94 percent of all freight in the U.S. and 95 percent of all transit buses and heavy construction machinery, consuming approximately 56 billion gallons of diesel fuel per year.

Goldman explained that the breakthrough technology employs a pair of catalytic chemical reactions that operate in tandem, one of which captured the 2005 Nobel Prize in Chemistry. This dynamic chemical duo revamps the Fischer-Tropsch (FT) process for generating synthetic petroleum substitutes, invented in 1920 but never developed to the point of becoming commercially viable for coal conversion.

"I study catalysts, the little molecular machines that control chemical reactions. With our new catalysts, one can generate productive, clean burning fuels economically and at unsurpassed levels of efficiency using Fischer-Tropsch," said Goldman, a professor in the department of chemistry and chemical biology at Rutgers.

The work grew out of a National Science Foundation-funded research consortium, the Center for the Activation and Transformation of Strong Bonds, based at the University of Washington.

Fischer-Tropsch yields a wide distribution of molecular weight hydrocarbon products but without any way to control the desired mix. The low-weight and the high-weight Fischer-Tropsch products are useful – the light as gas and the medium-heavy as diesel fuel, Goldman explained.

"The problem – the greatest inefficiency of the process – is that you also wind up with a substantial quantity of medium-weight products that are not useful and you are stuck with them," Goldman said. "What we are now

The transportation industry in the U.S. consumes 56 billion gallons of diesel fuel annually.
Credit: Eric Carraux

able to do with our new catalysts is something no one else has done before. We take all these undesirable medium-weight substances and convert them to the useful higher- and lower-weight products."

A Fischer-Tropsch pilot plant was constructed by EniTecnologie (Ente Nazionale Idrocarburi) and IFP (Institut Français du Pétrole) at Sannazzaro, Italy.
Credit: ENITechnologie

- Prof. Goldman's Homepage
- National Science Foundation supporting program
- The Center for Activation and Transformation of Strong Bonds
- New national research center at UW aims to solve big chemistry problems
- University of North Carolina research collaborator Maurice Brookhart

Questions or comments, contact Joseph Blumberg, manager of science communications, blumberg@ur.rutgers.edu or call (732) 932-7084 extension 652.

Rutgers Researchers Find Fat Gene

Rutgers researchers have identified a human gene, its protein product and the way in which the protein influences how the body processes fat, discoveries that may lead to drugs to control obesity and promote weight loss.

Professor George Carman (right) examing yeast cultures in the laboratory with Research Associate Gil-Soo Han.
(Credit: Joseph Blumberg)

The so-called "fat gene" carries the code for lipin, a protein that is a key fat-regulating enzyme in metabolism, said George M. Carman, a professor in the department of food science.

This scientific detective story began in 1989, when graduate student Yi-Ping Lin purified a small amount of a yeast enzyme known as PAP, a protein catalyst required for the formation of fats. At that time the technology was not refined enough to determine the enzyme's sequence and identify its gene, so the project was shelved.

While cleaning out a freezer last summer, Carman's crew found some of the PAP enzyme that had been purified in 1993 by another graduate student, Wen-I Wu. "Because we now had the technology, my postdoctoral associate Gil-Soo Han was able to get a sequence of the amino acids in PAP this time around," Carman said.

Previous studies with mice have shown that a lack of lipin causes a loss of body fat and that excess lipin promotes extra body fat. So scientists knew that lipin was involved in fat metabolism; they just didn't know how.

Carman and his Cook College research team's first revelation that lipin might be targeted for control of body fat came with the discovery that the protein is a PAP enzyme. Since they had worked out the sequence of the amino acids that make up the yeast PAP enzyme, they were able to backtrack along the path to its origin – the gene that coded it – linking the enzyme to the yeast gene PAH1 that made it.

"This is a big breakthrough because for years no one was able to get the gene for PAP and prove that it was important in making fat," Carman said. Carman said the discovery could have implications for treating conditions that range from obesity to the loss of fat beneath the skin, as seen in HIV patients.

The findings are published in the Journal of Biological Chemistry. The research was funded by the National Institute of General Medical Sciences (NIGMS), part of the National Institutes of Health, and the New Jersey Agricultural Experiment Station.

Fat Gene Discovered

(Credit: Courtesy of Answers.com and Wikipedia)

- Professor Carman's Web page
- Paper in Journal of Biological Chemistry
- New Jersey Agricultural Experiment Station
- National Institute of General Medical Sciences

Questions or comments, contact Joseph Blumberg, manager of science communications, blumberg@ur.rutgers.edu or call (732) 932-7084 extension 652.

- rutgers.edu
  - Rutgers Research Highlights: A Gene for the Fear Factor

Rutgers Research Highlights: A Gene for the Fear Factor

Research Highlights

Microbes for Groundwater MTBE

Max Häggblom's Rutgers laboratory has taken an important step on the path to using microbes to rid the environment of methyl tertiary-butyl ether (MTBE), a toxic gasoline additive classified as a potential human carcinogen. It has contaminated virtually all groundwater in the United States through fuel spills and leaking underground gasoline storage tanks. "While gasoline hydrocarbons are much more toxic than MTBE, they are just candy to microbes and don't become as persistent a problem," said Häggblom, a professor in Rutgers' department of biochemistry and microbiology and the Biotechnology Center for Agriculture and the Environment on Rutgers' Cook College campus. "MTBE is slowly being banned, but it's going to stay in our groundwater for centuries," he said.

Since MTBE contamination is underground, anaerobic bacteria – those that operate in the absence of oxygen – are the most likely candidates for the cleanup job. Häggblom and his team have a way to facilitate their use by employing carbon isotope fractionation: the changes in the isotopic ratios of carbon (its different molecular versions, carbon-12 and carbon-13) brought about from the selective degradation of the carbon-12 form in the case of MBTE.

"So when the ratio of carbon-12 to carbon-13 decreases, it indicates the presence of the kind of bacteria we are looking for," Häggblom said. "This approach also will help us eventually home in on precisely which bacterium is doing the eating – possibly the best choice for large-scale underground applications."

Removal of leaking underground fuel tanks reduces future groundwater contamination.
(Credit: Courtesy of U.S. EPA Region 5)

Filling station spills have contributed to MTBE pollution. (Credit: Photo courtesy of Washington University In St. Louis)

While the methodology is a step in the right direction, Häggblom remains concerned about the slow pace at which the anaerobes seem to operate as they break down MTBE, a feature of the microbes he observed in his laboratory. Only after the first three years of their 10-year study could Häggblom and his group discern that a microbe was feeding on the MTBE in his cultures. This snail-like pace is a serious obstacle, but once again, Häggblom and company may have a solution.

“We are trying some tricks to actually speed it up, one of which is adding a relatively innocuous natural substance that appears to stimulate the process,” Hägglom said. The researchers are in the midst of applying for a patent on the technique.

- The Häggblom laboratory

Rutgers Research Highlights: A Gene for the Fear Factor

- Paper in Applied and Environmental Microbiology
- More information on MTBE from U.S. Dept. of Energy
- Citizens Campaign for the Environment

Questions or comments, contact Joseph Blumberg, manager of science communications, blumberg@ur.rutgers.edu or call (732) 932-7084 extension 652.

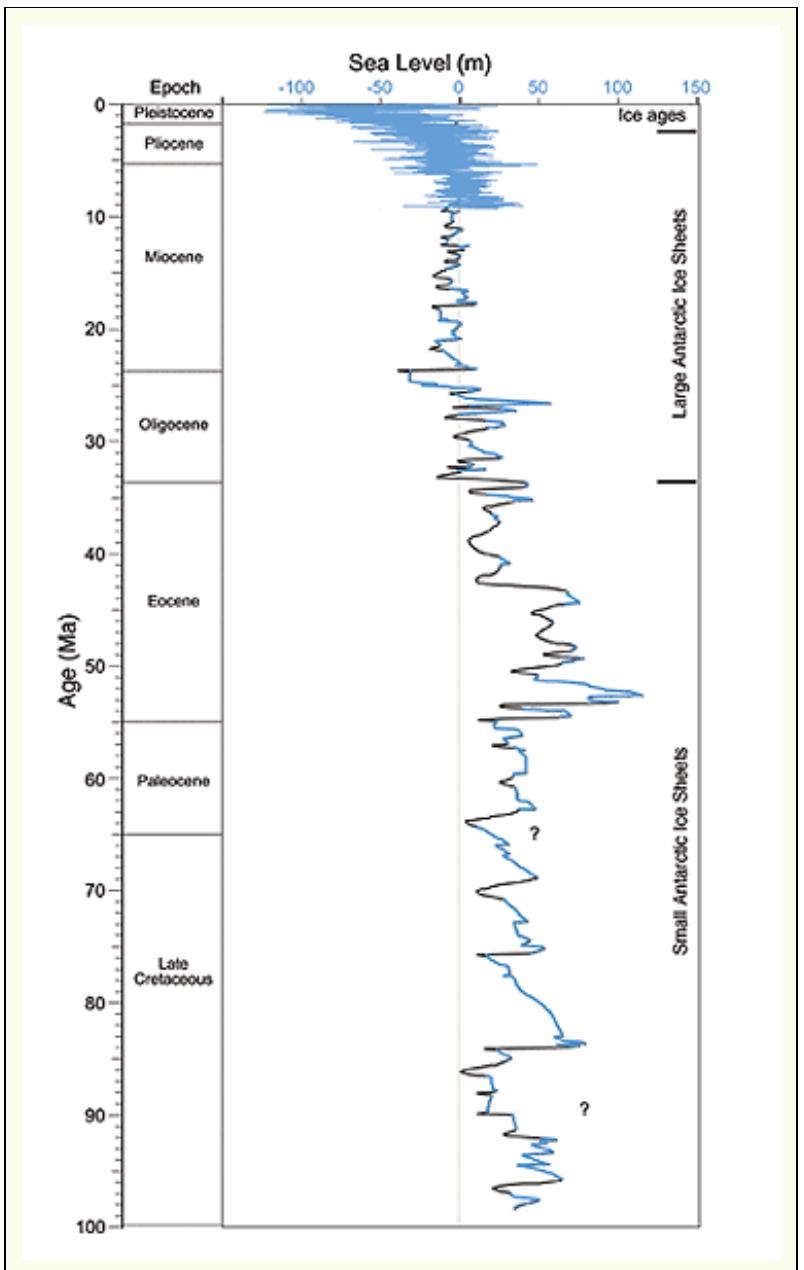
Global Warming Doubles Rate of Ocean Rise

Ocean levels are rising twice as fast today as they were 150 years ago, and human-induced warming appears to be the culprit, say scientists at Rutgers.

While the speed at which the ocean is rising – almost two millimeters per year today compared to one millimeter annually for the past several thousand years – may not be fodder for the next disaster movie, it affirms scientific concerns of accelerated global warming.

In the Nov. 25 issue of the journal Science, geological sciences professor Kenneth G. Miller reports on a new record of sea level change during the past 100 million years based on drilling studies along the New Jersey coast. The findings establish a steady millimeter-per-year rise from 5,000 years ago until about 200 years ago. In contrast, sea-level measurements since 1850 from tidal gauges and more recently from satellite images reveal the current two-millimeter annual rise.

“Without reliable information on how sea levels had changed before we had our new measures, we couldn’t be sure the current rate wasn’t happening all along,” said Miller. “Now, with solid historical data, we know it is definitely a recent phenomenon. The record therefore provides a new and reliable baseline to use in addressing global warming.”



A new record of sea level changes over the past 100 million years resulted from research by Rutgers and collaborating institutions.

He also reports other findings that argue against some widely held tenets of geological science. Miller claims, for example, that ocean heights 100 million years ago and earlier were 150 to 200 meters lower than scientists had previously thought. These findings imply lower sea floor spreading rates than scientists had widely assumed. Also, during the most recent age of dinosaurs, frequent sea-level fluctuations of 15-30 meters suggest small- to medium-sized but short-lived ice sheets in the Antarctic region. This casts doubt whether any of the Earth’s warmer eras were fully ice-free.

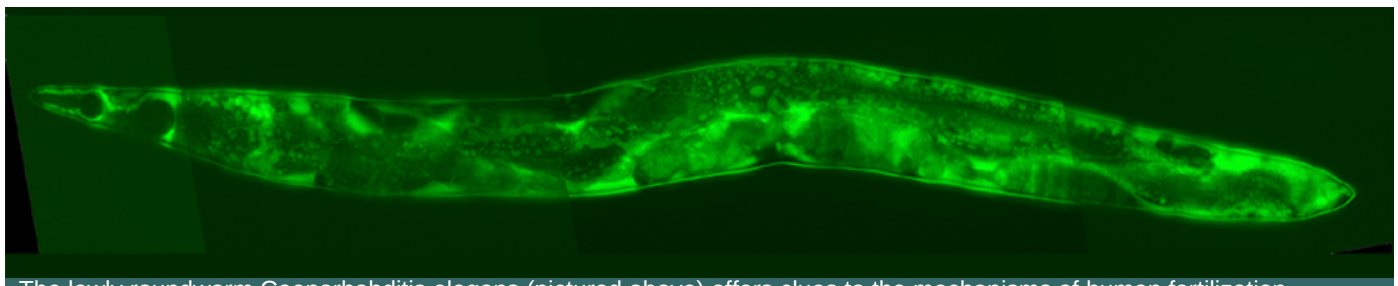
Rutgers geological sciences professor Ken Miller examines core samples of sediments drilled along New Jersey's coastline from Cape May to Sandy Hook.

Professor Miller points out portions of New Jersey that were under water millions of years ago.

Miller's team took five 500-meter-deep core samples of sediments onshore along New Jersey's coastline from Cape May to Sandy Hook. The scientists examined the sediment type, fossils and variations in isotopes, or different forms of the same elements, at different levels in the cores they extracted. Miller also correlated these measurements with others from throughout the world to substantiate the global nature of their record.

- Article in *Science* – November 25, 2005
- Professor Ken Miller's web site
- Rutgers Geology web site

Questions or comments, contact Joseph Blumberg, manager of science communications, blumberg@ur.rutgers.edu or call (732) 932-7084 extension 652.



The lowly roundworm Caenorhabditis elegans (pictured above) offers clues to the mechanisms of human fertilization.

Genetics May Guide New Infertility Therapies

One in six couples worldwide experiences fertility problems and fertility rates are dropping across the developed world. People are asking why, and Rutgers geneticists are beginning to find answers. Their groundbreaking discovery of two genes required for fertilization, aptly named egg-1 and egg-2, is reported in the journal Current Biology.

In the lab...Pavan Kadandale (left), first author on the Current Biology report, and principal investigator Andrew Singson.

A critical first step in fertilization is for a sperm to enter an egg. To do so, the sperm has to recognize the egg and ignore other sperm or cells in the environment. Then there are interactions needed to get the surface membranes of both sperm and egg to fuse.

A team led by Andrew Singson, an assistant professor, and graduate student Pavan Kadandale, turned to the lowly roundworm Caenorhabditis elegans, the first multicellular organism to have had its genome completely sequenced, to unravel the mysteries behind the fertilization process.

The millimeter-long worm is transparent, allowing a clear view of its internal workings, and its short life cycle permits researchers to chronicle developmental and hereditary factors over generations. These properties have enabled researchers to use the worm for discoveries ranging from cell death and life span regulation to nervous system structure and function.

But the worm's most important attribute as a model for this work may be its curious reproductive biology. These worms exist as males or hermaphrodites. When hermaphrodites are young they produce sperm and switch to produce eggs as adults.

The Rutgers scientists employed genetic tools, such as RNA interference and gene "knockout" mutants, to see what would happen if worms lacked the function of egg-1 or egg-2 genes. The researchers altered eggs in the hermaphrodites and used sperm from young males to test fertilization. The result was that worms became sterile because fertilization had failed to occur; normal sperm could no longer enter the eggs produced by egg-1 and egg-2 mutant hermaphrodites.

"What we learn in studying fertilization is not only important for this event, but also for the functioning of other cells

in our bodies and for understanding many of those processes," Singson said. The underlying cell biology, he said, is going to be universal with applications even in infectious diseases, such as AIDS, where the virus passes its genetic material to the cells it infects just as fertilization transmits sperm DNA to the egg.

People of the Singson lab.

- Professor Singson's Web Site
- The Singson Laboratory
- The Waksman Institute of Microbiology
- The journal *Current Biology*

Questions or comments, contact Joseph Blumberg, manager of science communications, blumberg@ur.rutgers.edu or call (732) 932-7084 extension 652.

Research Highlights

A Rutgers scientist has found the "fear gene." Geneticist Gleb Shumyatsky and his fearless laboratory mice were featured in a front-page article in the *Star-Ledger* Nov. 29, 2005, "These Lab Mice Sneer at Danger."

A Gene for the Fear Factor

Rutgers geneticist Gleb Shumyatsky has discovered a gene that controls both innate and learned forms of fear. The gene, known as Stathmin or Oncoprotein 18, is highly concentrated in the amygdala, a key region of the brain that deals with fear and anxiety.

“This is a major advance in the field of learning and memory that will allow for a better understanding of post traumatic stress disorder, phobias, borderline personality disorder and other human anxiety diseases,” said Shumyatsky, an assistant professor of genetics at Rutgers,. “It will provide important information on how learned and innate fear is experienced and processed, and may point the way to apply new therapies.”

Rutgers geneticist Gleb Shumyatsky.

In collaboration with Nobel laureate Eric Kandel at Columbia University and Vadim Bolshakov at Harvard Medical School, Shumyatsky had previously identified another gene that controlled learned but not innate fear. The new research being reported by Shumyatski, Kandel et al. is the first major attempt to analyze how both learned and innate fear is controlled at the molecular level.

Shumyatsky, his collaborators and their laboratory colleagues used mice that were deficient in Stathmin and analyzed their anxiety levels by recording their performance in mazes. Mice instinctively avoid open spaces, but the knockout mice showed no fear and consistently explored more open areas than normal mice. Reductions in innate fear behaviors, such as avoiding open spaces as opposed to “safer” areas with less exposure, correlated with the absence of Stathmin.

The researchers relied on a combination of mouse genetics, cellular electrophysiology and behavior to support their collaborative findings, presented in the Nov. 18 issue of the journal Cell Online.

Shumyatsky explained that the earlier research paper described a gene that is expressed in the learned fear circuitry and controls *only* learned fear but not innate fear. The new paper describes a gene that controls both learned *and* innate fear. This work therefore emphasizes the importance of local gene expression in the neural circuits responsible for specific behaviors.

“This study provides genetic evidence that amygdala-enriched Stathmin is required for the expression of innate fear and the formation of memory for learned fear,” the authors concluded. “Stathmin knockout mice can be used

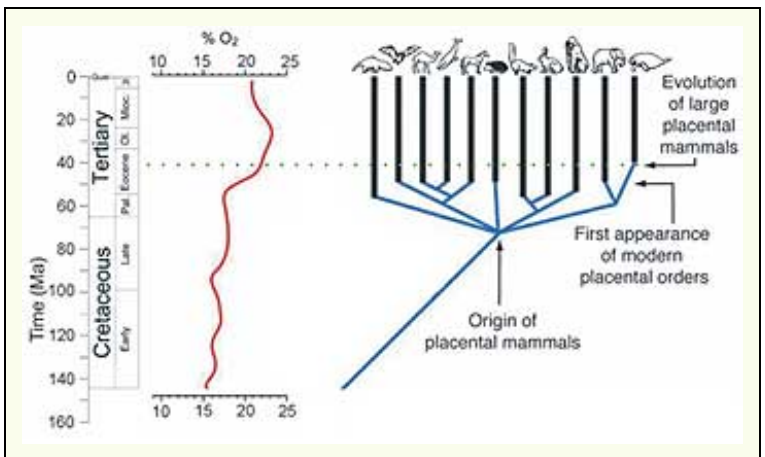
as a model of anxiety states of mental disorders with innate and learned fear components (and) these animal models could be used to develop new anti-anxiety agents," they added.

- Article in *Cell Magazine* - November 18, 2005
- Dr. Gleb Shumyatsky's Web Site

Questions or comments, contact Joseph Blumberg, manager of science communications, blumberg@ur.rutgers.edu or call (732) 932-7084 extension 652.

Nothing Like Oxygen For That Evolutionary Boost

Paul Falkowski says that from an evolutionary point of view, the absence of dinosaurs has been a very good thing for large placental mammals – less competition and fewer nasty predators. But it is not the only reason large mammals, including humans, evolved: A sharp rise in the Earth's atmospheric oxygen, about 15 million years after the extinction of the dinosaurs, gave mammals the evolutionary boost they needed to survive, thrive and, finally, dominate the planet, according to Falkowski, professor of geological and marine science, and lead author of a study published Sept. 30 in the journal Science.



The horizontal dotted line connects a concurrent increase in atmospheric oxygen to the rapid rise of large, placental mammals during the Eocene epoch.

Falkowski and his colleagues measured the abundance of carbon 13, a byproduct of photosynthesis, in deep-sea core samples dating back 205 million years. Because photosynthesis produces oxygen and leaves carbon 13 behind, the presence of carbon 13 in the fossil samples allows scientists to estimate precisely how much oxygen was in the atmosphere at any given time, Falkowski says.

Paul Falkowski, Board of Governors Professor of Geological and Marine Science.

Credit: Rutgers University

From a steady 10 percent – the level at which dinosaurs flourished – the oxygen percentage rose to 17 percent 50 million years ago and then to 23 percent by 40 million years ago. The researchers found that the rise in oxygen content in the fossil record corresponded to the rapid rise of large, placental mammals. "The more oxygen, the bigger the mammals," Falkowksi says. "We argue that the rise in oxygen content allowed mammals to become very, very large – mammals like 12-foot-tall sloths and huge saber-toothed cats. They paved the way for all subsequent large mammals, including ourselves."

The results described in Falkowski's article, "The Rise of Oxygen Over the Past 205 Million Years and the Evolution of Large Placental Mammals," stem from years of analysis of organic and inorganic core samples. Scientists have been using deep-sea core samples for years, but Falkowski and his colleagues have achieved greater precision in their measurements, thanks to two high-precision, isotope ratio mass spectrometers housed in the geological sciences department at Rutgers.

There were placental mammals on Earth at the time of the great extinction of dinosaurs about 65 million years ago; they were, however, tiny, limited creatures. The extinction event itself, while eliminating the dinosaurs, did little to further the mammalian domination of the planet. It was the subsequent spreading of shallow seas, the increase in plant life – and photosynthesis – in addition to the consequent increase in oxygen content that gave the mammals the boost they needed, according to Falkowski.

In the last 10 million years, the percentage of oxygen in the Earth's atmosphere has decreased to 21 percent. Falkowski says many scientists believed that great fires burned over the earth about 10 million years ago, reducing the number of trees, and, therefore, the amount of photosynthesis and oxygen.

Falkowski, recently named Board of Governors Professor of Geological and Marine Science, is a biologist and oceanographer by training. A native New Yorker and alumnus of the City College of New York (B.S. and M.S.; he received his doctoral degree from the University of British Columbia), Falkowski is director of the Environmental Biophysics and Molecular Ecology Laboratory at the Institute for Marine and Coastal Sciences, which he joined in 1998.

- Falkowski Homepage:
- News Release
- *Science* Article
- *Focus* Story: Acclaimed geologist named Board of Governors Professor

Though big and small mammals now coexist, the balance shifted in favor of larger forms some 50 million years ago.

Courtesy Georges Frei, www.upali.ch

Questions or comments, contact Joseph Blumberg, manager of science communications, blumberg@ur.rutgers.edu or call (732) 932-7084 extension 652.

Research Highlights

Rutgers' contribution to the rice genome sequencing project was featured in a front-page article in the *Star-Ledger* August 11, 2005. Link to the *Star-Ledger* Web site for the article, "Unlocking Genetic Secrets of a Key Food Source."

A kindergarten student eating rice at a nursery in Bejing, China
UN/DPI Photo

Complete Sequence of Rice Genome

The journal Nature in its August 11 issue proclaimed the completion of the rice genome by the Plant Genome Initiative at Rutgers (PGIR) and other members of an international consortium.

“This is a breakthrough of inestimable significance not only for science and agriculture, but also for all those people who depend on rice as their primary dietary staple – more than half the world's population,” said Joachim Messing, director of Rutgers' Waksman Institute of Microbiology, home to the PGIR.

The publicly available finished sequence is anchored to the genetic map, providing both the linear order of the 37,544 genes and their positions on the 12 rice chromosomes. This highly accurate, map-based characterization of the rice genome already has led to the identification of important genes, such as those which may increase yield and productivity. Draft sequences of rice published previously lacked the coverage and accuracy to permit such discovery.

Rice field in China.
UN/DPI Photo

The revelations implicit in the rice genome may enable agricultural breeders to also address other critical issues in rice cultivation. Messing noted that rice cultivation today creates an enormous environmental burden in terms of the quantities of water and fertilizer required to produce a successful crop. Genomic information offers a genetic toolkit to the breeder who can use this new knowledge in developing novel strains that are highly productive and disease resistant as well as more environmentally friendly.

“On a theoretical level, having the complete genome provides a superb reference for making comparisons with other grasses, leading to a clearer understanding of how they evolved,” Messing said. “The rice genome is the Rosetta Stone of all the bigger grass genomes. Knowing its sequence will provide instantaneous access to the same genes in the same relative physical position in other grasses and accelerate plant gene discovery in many important crops such as corn and wheat.”

Research groups in 10 countries – Rutgers, the University of Arizona, Cold Spring Harbor Laboratory and The Institute for Genomic Research in the United States – coordinated their efforts through the consortium known as the International Rice Genome Sequencing Project. Rutgers was the only participant in the project that was financially supported solely by its own institution.

Harrowing a rice paddy in Los Baños, Philippines, with water buffalo.
Credit: H. David Thurston, professor emeritus, Cornell University

Rice terraces in Bali, Indonesia.
Credit: Lucy Fisher, research associate, Cornell University

Women planting rice seedlings near Kampot, Cambodia.
UN/DPI Photo by P. Sudhakaran

Hot Links:

The Plant Genome Initiative at Rutgers http://pgir.rutgers.edu/

Waksman Institute of Microbiology http://waksman.rutgers.edu/

Professor Joachim Messing homepage http://waksman.rutgers.edu/Waks/Messing/messing.html

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THE STATE UNIVERSITY OF NEW JERSEY
RUTGERS

Status of Significant Facilities Projects
In Design and Construction
May 2006

Summary of Projects

	Number	*Project Budget (Millions)*
New Brunswick (includes HECIP)	4	$105.5
South Jersey (includes HECIP)	1	$7.8
HECIP – All Campuses		$200.0
Newark (includes HECIP)	1	$23.4

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THE STATE UNIVERSITY OF NEW JERSEY
RUTGERS

Higher Education Capital Improvement Program (HECIP)

All Campuses

Status of Significant Projects, May 2006

Program Description:

In September 1999, the Governor signed the Higher Education Capital Improvement Fund Act, which provides $550 million to New Jersey's four-year public and independent institutions to assist them in addressing deferred maintenance and other specific capital needs. Rutgers was allotted $169 million and subsequently the Board of Governors adopted the $200 million Rutgers' Higher Education Capital Improvement Program (HECIP). The University has identified approximately $500 million in deferred maintenance and code compliance requirements and an additional $5 million in classroom improvements. Projects selected for inclusion in the HECIP will address the University's most pressing needs, which extend across all campuses.

Current Status:

Camden Campus as well as campuses in New Brunswick and Piscataway are complete except for the following ongoing projects: Biomedical Engineering on Busch Campus; Human Ecology and Food Science on Cook Campus.

Biomedical Engineering is under construction with the building envelope nearing full enclosure. Human Ecology requires a new building but lacks full funding to support it. The funding may be transferred to another Cook Campus project if necessary.

Budget Status:	***Original Budget***	***Obligated Expenses*****	***Actual Expenses*****
College Avenue Campus	16,169,119	14,039,553*	13,963,496
Busch Campus	26,589,000	34,074,953*	29,896,445
Livingston Campus	8,742,000	7,157,865	7,004,043
Douglass Campus	20,744,000	25,645,618*	25,415,597
Cook Campus	17,340,000	15,565,515*	14,632,144
Classroom Improvements	2,200,000	2,173,707	2,020,808
Institute of Marine and Coastal Sciences	1,030,000	770,730	711,557
151 Ryders Lane (former Hillel Building)	1,370,000	1,370,000	1,370,000
Health Centers	1,000,000	652,537	652,104
Utilities and Infrastructure	8,925,881	9,173,046*	9,078,776
Libraries	8,500,000	9,189,849*	9,096,235
New Construction	27,390,000	77,338,371*	70,522,250
Camden Campus	20,000,000	19,682,193	19,620,264
Newark Campus	40,000,000	41,125,853*	38,693,690
Totals:	**200,000,000**	**257,959,790**	**242,677,409**

*82,716,675 from non-HECIP sources ** As of April 30, 2006

Prepared by: The Office of Facilities Project Administration
Wednesday, May 31, 2006

Biomedical Engineering Building

Busch Campus

Status of Significant Projects, May 2006

Project Information:

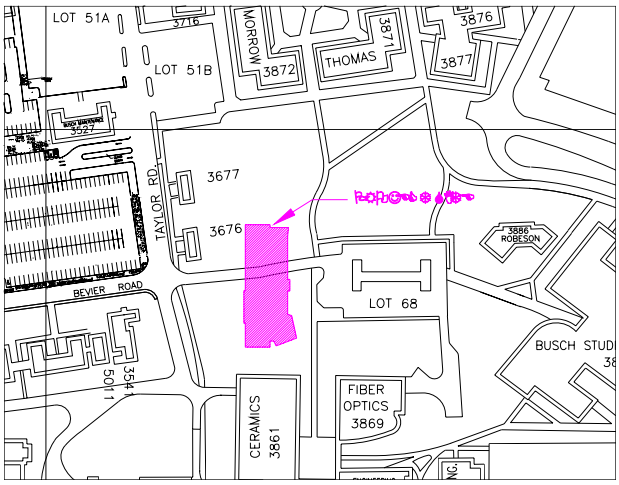
Project Budget:	$33.48 Million
Project Phase:	Construction
Architect/Engineer:	KSS Architects
Contractor:	The Henderson Corp
Square Footage:	80,000GSF

Project Description:

The entire structure contains approximately 49,000 net square feet of program space allocated to conference and classroom facilities, research laboratories, laboratory support facilities, teaching laboratories, faculty office and computer facilities. Features include a 150-seat auditorium with state of the art audio-visual conferencing facilities and distance learning capabilities, a 50-seat state of the art classroom, an advanced visualization section with specialized laboratory facilities.

Current Status:

Substantial Completion will be mid-July 2006, except for Auditorium seating. Substantial Completion for Storm water Diversion system will be July 1, 2006. Keying, card readers and furniture installation will start August 1, 2006. Move-in on the laboratory side of the building will start September 1, 2006, and move-in on the office side of the building will start October 1, 2006.



Project Site on Busch Campus

North Elevation

Key Dates:

Concept Document:	Mar 2001
Schematic Design:	Apr 2001
Design Development:	Sep 2001
Construction Drawings:	Jan 2004
Bid Opening:	Feb 2004
Est Construction Completion:	July 2006

Thin Brick Corridor Walls

Life Science Building

Newark Campus

Status of Significant Projects, May 2006

Project Information:

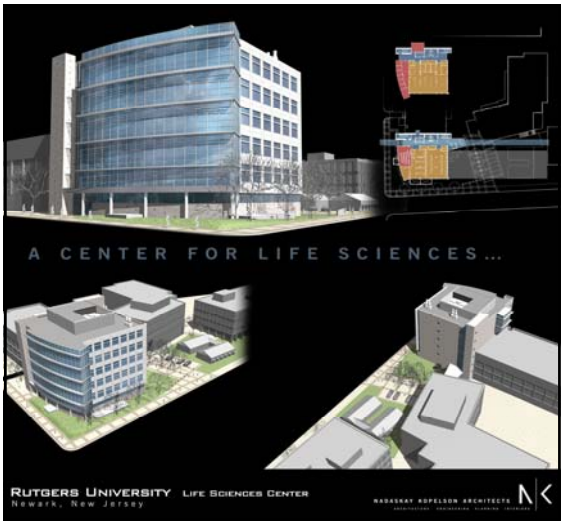
Project Budget:	$23.4 Million
Project Phase:	Construction
Architect/Engineer:	Nadaskay Kopelson
Square Footage:	67,740 GSF

Project Description:

The site is on the corner of University Avenue and Warren Streets and measures approximately 19,000 SF. The planned building is six stories above grade with a full basement for a total of seven levels. Entrances will be located on the north and south elevations. The lower four levels will link directly to Olson Hall and will share the existing common loading dock. The basement will contain mechanical space as well as core functions. The facility will house academic labs, a multi-purpose state of the art media seminar room, research labs and support space for Principal Investigators. Floors 3 and 4 will be constructed as shell space for future use. When the building is fully fitted out, it will accommodate a total of 15 Principal Investigators.

Current Status:

Life Sciences Center has gotten its Temporary Certificate of Occupancy in April 2006. The substantial completion dare should be in May 2006. Physical Plant has set up a live web cam of the project which can be seen on the internet at http://newark.rutgers.edu/ppnewark.



Rendering

Center for Life Sciences

Key Dates:

Construction Drawings:	Dec 2003
Bid Opening:	Feb 2004
Est Construction Completion:	May 2006

Multispecies Aquaculture Demonstration Facility

Cape May

Status of Significant Projects, May 2006

Project Information:

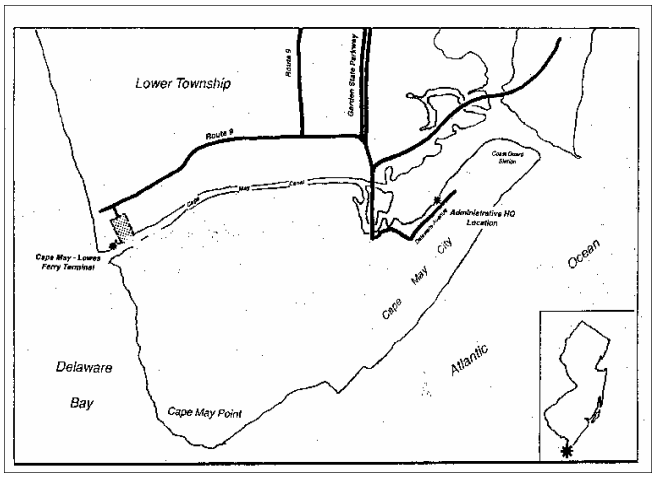
Project Budget:	$7.8 Million
Project Phase:	Construction
Designer:	Montgomery Watson
Contract Administrator:	Kelter & Gilligo
Contractor:	REMSCO
Square Footage:	22,500 GSF

Project Description:

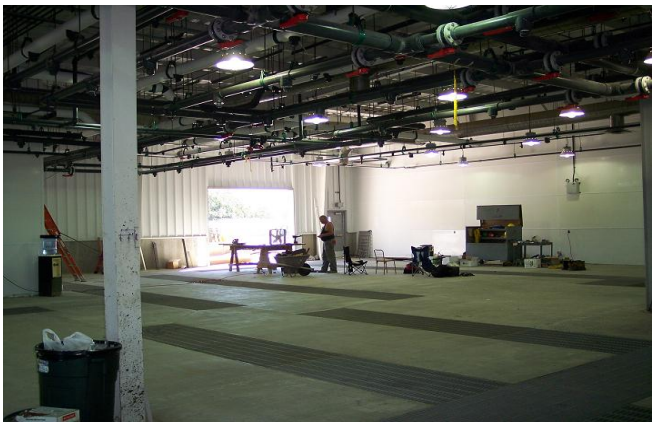
The facility will be used to perform research and training related to the development of aquaculture as a large-scale industry in New Jersey. The complex will consist of a series of indoor tanks and outdoor ponds for raising finfish and shellfish, an indoor hatchery facility, and a pumping station to supply saltwater needs.

Current Status:

Substantial completion for Hatchery Building was December 2005. Intake pump station has been redesigned and reengineered. After re-permitting by NJDEP, the Intake Pump Station construction will take 3-4 months. On-site septic system is being designed and engineered due to NJDEP's rejection to connect to the local Municipal Utility Authority (MUA). On-site well system is being designed and engineered due to MUA's costly construction requirements and design standards.



Site Location in Cape May County



Southeast corner of hatchery building

Southwest corner of hatchery building

Key Dates:

Concept Document:	Nov 1995
Program/Schematic Design:	Dec 1996
Design Development:	Sep 1998
Construction Drawings:	May 2001
Bid Opening:	Sep 2001
Substantial Completion: for Hatchery Building	Dec 2005
Est Construction Completion for Intake Pump Station	Aug 2006

Public Safety Building—George Street Corridor

Status of Significant Projects, May 2006

Project Information:

Project Budget:	$33.5 Million
Project Phase:	Construction
Architect/Engineer:	Farewell Mills & Gatsch
Developer:	DEVCO
Square Footage:	74,500 GSF

Project Description:

The University is entering into a 30-year lease with DEVCO (New Brunswick Development Company) for a parking garage and office space at the corner of Commercial Avenue and George Street. The building will be approximately 74,500 gross square feet. The parking garage will provide parking for approximately 350 vehicles. Public Safety, Parking and Transportation Services, and other related Rutgers organizations will occupy these facilities. The Rutgers tenants of the building will carry the debt service and operating costs. The project will have an approximate two-year cycle from approval to occupancy.

Public Safety Building with Parking Garage

Corner of George St and Commercial Ave.

Current Status:

Construction is complete. Center for State Health Policy, CESP, AND Public Safety Central Administration, have moved in. Parking and Transportation will be moving in after the spring semester is over. The dispatch and communication center will open in September 2006.

Rendering-Along Commercial Avenue

Key Dates:

Schematic Design	Oct 2003
Design Development	Nov 2003
Construction Drawings	Feb 2004
Construction Completion	Oct 2005

Health Sciences Center
College Avenue Campus
Status of Significant Projects, May 2006

Project Information:

Project Budget:	$32 Million
Project Phase:	Schematic Development
Architect/Engineer:	Gertler Wente Kerbeykian
Contractor:	TBD
Square Footage:	23,000 gsf College of Nursing 1,700 gsf Pharmacy Renovation 58,000gsf Institute for Health

Project Description:

A new building for the College of Nursing (CoN) and a separate building for the Institute for Health (IfH) is to be constructed on a site between Paterson Street and Bayard Street near the Robert Wood Johnson Medical Center (RWJ). The College of Nursing building will allow for the consolidation of the Nursing School Program into one facility. It will be a three story building with a partial basement, and will include large smart classroom, administrative offices, classrooms, learning lab, exam rooms, research space, simulation teaching lab, student study area, student and faculty lounge, and nursing and pharmacy faculty office space. In addition, space on the 4th floor of the Pharmacy building located on the Busch Campus will be renovated for the College of Nursing.

The Institute for Health building will allow for the consolidation of the Institute for Health, Health Care Policy and Aging Research, as well as the clinical portion of GSAPP. The building will be separated from the College of Nursing by a plaza. This building will include meeting areas and office space and will be a 5 story structure.

GWK Rendering

Current Status:

The drawings for the CoN were 90% complete when work was halted and IfH building was added to the project on the site. Two adjacent lots were requested from RWJ and an additional 1,255 net sf will be added to the IfH building as compensation for the lots. Present estimated costs exceed the funding available for the CoN and reengineering is being done to bring the project in line with the budget. Schematic Design is still underway for IfH.

Key Dates	***CoN***	***IfH***
Schematic Design:	Nov 2005	Jun 2006
Design Development:	Jun 2006	TBD
Construction Drawings:	TBD	TBD
GMP Bid Opening:	TBD	TBD
Est. Construction Completion	TBD	TBD

Bartlett Hall & Endocrine Research Facility

Cook Campus

Status of Significant Projects, May 2006

Project Information:

Project Budget:	$6.46 Million
Project Phase:	Design/Construction
Architect/Engineer:	Nadaskay/Kopelson
Square Footage:	11,500

Project Description:

The project consists of a new building for the expansion of the Animal Science Endocrinology Program, which will house new research laboratories and associated offices. In addition, the project includes deferred maintenance and replacement of the HVAC system.

Key Dates:

Concept Design	Mar 2005
Schematic Design	Oct 2005
Design Development	Feb 2006
Re-design Drawings	Apr 2006
Construction Drawings	May 2006

Current Status:

New Endocrine Research Facility

The design of the new Endocrine Research Facility is proceeding as a single story stand-alone building on Poultry Lane, Cook Campus, for the endocrine program chaired by Dipak Sarkar, PhD, of the Animal Sciences department. Design is at the 100%CD phase and has been approved by NIH. Time extension and scope reduction applications were approved by NIH. Additional funding sources have been identified for construction of the project. Anticipated bidding of construction will occur from June 9th to July7th 2006.

Bartlett Hall

Deferred Maintenance improvements at the existing Bartlett Hall was awarded to Hall Building Corporation. Building is substantially complete, with punch list items being addressed.