

**Responsible Office:**  
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 Institutional Research & Planning

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 The Graduate School

# ACADEMIC PROGRAM REGISTRATION

**Policy Title:**  
**Guidelines for the Approval and Registration of Dual Degree Programs**

**Release / Revision Date:**  
 October 17, 2011

**These guidelines apply to Cornell University:**

- Undergraduate Colleges (submit to **Kristin Walker**)
- Graduate Fields (submit to **Kat Empson**)
- Professional Schools (submit to **Kristin Walker**)

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**SUMMARY:**

These guidelines describe the requirements for the official approval of a dual degree program by Cornell University and the official registration of a dual degree program with the State University of New York (SUNY) and/ or the New York State Education Department (NYSED).

All dual degree programs must be reviewed and approved internally by Cornell and externally by SUNY and/or NYSED.

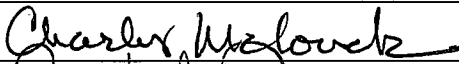

Academic program changes may not be advertised on any web sites or in any other manner, or included in the Graduate School online application until they have been approved internally by Cornell and externally by SUNY and/or NYSED (as applicable depending on the type of program).

**APPROVAL AND REGISTRATION PROCESS SEQUENCE:**

UNDERGRADUATE	GRADUATE
1. Office of Institutional Research and Planning	1. Dean of the Graduate School
2. Faculty Senate	2. General Committee of the Graduate School
3. Provost	3. Faculty Senate
4. Board of Trustees	4. Provost
5. SUNY and/or NYSED	5. Board of Trustees
6. Office of the University Registrar	6. SUNY and/or NYSED
	7. Office of the University Registrar

**PROPOSAL FORMAT:**

The completed proposal becomes part of Cornell University's public record. Faculty and staff from across the university might have reason to read or review it.

DUAL DEGREE PROPOSAL SUBMISSION DATE AND DGS APPROVALS				
Date of Proposal Submission				
DGS Signature of Degree 1				
DGS Signature of Degree 2				
FACULTY CONTACT INFORMATION FOR PROPOSED DUAL DEGREE PROGRAM				
Dept / Field	Name	Dept / Field	Email	Phone
Dept / Field 1	Robert Parker	<i>Division of Nutritional Sciences</i>	rsp3@cornell.edu	607-255-2661
Dept / Field 2	William D. White	PAM	wdw8@cornell.edu	607-254-6476
PROPOSED DUAL DEGREE PROGRAM INFORMATION				
Degree	College or School	Dept / Field	Degree Title	Degree Award
Degree 1	<i>College Human Ecology</i>	<i>Division of Nutritional Sciences</i>	<i>Human Biology, Health and Society</i>	BS
Degree 2	<i>Graduate School</i>	PAM	<i>Health Administration</i>	MHA
<i>Example:</i>	<i>Graduate School</i>	<i>Chemistry</i>	<i>Chemistry</i>	<i>MS</i>

**Narrative:**

*Prepare a narrative that describes the rationale and advantages for creating or modifying this dual degree program. Comment on the proposed program's intellectual and pedagogical relevance to students and to the academy. Discuss the availability of faculty, facilities, and other support services; plans to recruit and retain students (especially those from historically underrepresented groups and women); and provisions to ensure that each student has adequate instructional support needed to complete the program requirements. Indicate the preferred beginning date of the proposed program (e.g., enrollment date).<sup>1</sup>*

**Program rationale:**

The dual Bachelor of Science (BS) in Human Biology, Health and Society (HBHS)/ Master in Health Administration (MHA) is a 4+1 program. The goal of this accelerated program is to enable students to combine a 4 year undergraduate degree in HBHS with a 2 year master's degree in health administration (MHA) in a time efficient, pedagogically rigorous manner

<sup>1</sup> Please consult the current version of the **Code of Legislation of the Graduate Faculty** as needed when preparing your proposal. And please also note that the Graduate School cannot make additional fellowship support or stipends available as a result of this change, and does not permit pro-rated tuition.

As background, the HBHS BS undergraduate major is a 4 year 120 credit bachelor's program in the Division of Nutritional Sciences. The mission of the program is to address human health issues from a broad and multidisciplinary perspectives. Students are required to develop a strong background in human biology so that they can understand the physiological and biochemical aspects of health issues. The program also requires students to draw on perspectives from both the biological sciences and the social sciences to examine health issues.

The Sloan Program Master in Health Administration (MHA) is a 2 year 60 credit masters program whose mission is to prepare new generations of leaders to apply management and organizational expertise to the advancement of health care delivery and of, the health and well-being of people, families and communities. Graduates work for hospital and health systems, management consulting firms, insurance and pharmaceutical companies and a range of other types of organizations involved in health and healthcare. The program curriculum combines rigorous coursework in management, public health and health policy with a robust practical training component which includes a required summer internship, colloquia and practitioner taught courses bringing industry experts to campus, an annual off-campus intersession fieldtrip to meet industry leaders, and a second-year capstone project.

The rationale for the dual HBHS BS/MHA 4+1 year program is that it permits students with a strong interest in health management to accelerate their progress to a professional degree in this area by allowing them to obtain their BS and MHA degrees in a total of 10 semesters while maintaining a high level of rigor in their program. This is accomplished as follows. Students complete 120 credits towards their BS degree of which 30 credits are for graduate courses which are double counted towards their MHA degree. They then enroll in the Graduate School and take an additional 30 credits of graduate courses to complete their MHA requirements for a total of 150 credits.

*Pedagogical Relevance:*

Pedagogically, the dual HBHS BS/MHA 4+1 year program allows students to move from studying theory and methods to practical applications in their chosen vocational area. Because the content of graduate courses in the MHA equals or exceeds the content of undergraduate courses, it is deemed pedagogically appropriate that students should receive both undergraduate and graduate credit for the same work. Further, in the event a student may have taken an undergraduate course whose content equals or exceeds that of a required MHA course, the program provides that they can obtain a waiver conditional on taking comparable credits in an advanced course. A possible pedagogical concern is that, as a graduate professional program, it is desirable to have a mix of students with a range of experiences. To address this concern, total undergraduate enrollment in 4+1 dual programs are capped at 5 students per year where the total target combined enrollment for MHA (dual and regular two year students combined) is 25.

*Availability of faculty and facilities and other support services:*

The dual program was established in 2000. It has been in continuous operation ever since. All courses and faculty necessary to support the program are in place, and the MHA has recently been reaccredited. No additional resources are required.

*Plans to recruit and retain students, especially underrepresented groups and women:*

Only current Cornell HBHS juniors who will have fulfilled all their undergraduate requirements for their major by the end of their junior year are eligible to apply for the dual HBHS bachelors/MHA

program. Criteria for admissions for the dual program are similar to the two year MHA regarding academic performance, standardized test scores, reference letters etc. The program actively recruits dual students at Cornell and admission is competitive, with applications generally equaling or exceeding the number of slots available. The historic completion rate for dual students (past 10 years) has been 100%.

The Department of Division of Nutritional Sciences and Sloan both have a history of conscious effort to recruit students from historically underrepresented groups and women. Currently, a majority of applicants and enrolled students in both HBHS and Sloan are women. Both programs also have a history of successfully recruiting students from historically underrepresented groups and recruiting historically underrepresented groups and women to the dual program is a priority.

*Adequacy instructional support:*

Adequate instructional support is in place.

*Enrollment date:*

The deadline for submitting applications for the dual HBHS BS/MHA program is March 15.

**Curricular Information:**

*Describe requirements for program completion (e.g., credits hours in major, in a second field, in liberal arts, electives, whether undergraduate, graduate, or doctoral, and when and how often offered, etc.); indicate the number of full-time study semesters required for program completion at the undergraduate level, graduate level, or doctoral level (as applicable). Describe thesis, dissertation, or project requirements for the two separate degree programs.*

Students in the dual HBHS BS/MHA program must satisfy degree requirements for: 1) an undergraduate Bachelor of Science (BS) in Human Biology, Health and Society in the Division of Nutritional Sciences; and 2) a Master in Health Administration (MHA) in the Sloan Program where credits are double counted for their final year of the BS and their first year of the MHA.

**4 Year HBHS BS Requirements:**

The HBHS BS is a 120 credit 8 semester program.

Curriculum requirements are as follows:

***Foundation Courses:***

HBHS majors start by building a liberal arts foundation with classes in the natural and social sciences (chemistry, anthropology, economics, psychology, sociology), the humanities (ethics), quantitative and analytical development (calculus and statistics), and written communication skills. A total of 39-47 credits are required to satisfy distribution requirements.

Natural Sciences: Introductory Chemistry (8 cr.)

Social Sciences (6 cr.)

Humanities (3 cr.)

Written Communications (6 cr.)

Quantitative and Analytical (7-8 cr.)

Additional requirements (9-16 cr.)

***Core Courses:***

At the heart of the HBHS undergraduate curriculum are the core courses in the major. Required core courses are as follows:

Biology Foundation Courses

An Introductory Biology Lecture and Lab Sequence (8 cr.)

Physiology (3 cr.)

Biochemistry (4-6 cr.)  
Biology Electives (6 cr.)  
Introduction to HBHS and Nutrition  
NS: 1150 Nutrition, Health and Society (3 cr)  
HBHS Selectives (Students must take a total of 15 credits as broken down in the following categories and are encouraged to choose at least one course on development (+), policy (\*), and professional problem solving (^). In addition, three (3) of these 15 credits must be from a Nutritional Science (NS) Course.  
Social Science Perspective on Health (6 cr.)  
Natural Science Perspective on Health (6 cr.)  
Additional credits (3)

***Thesis, dissertation, or project requirements:*** There is no thesis, dissertation, or project requirement.

Table 1a shows a sample curriculum for a HBHS BS major in the regular 4 year degree program. A curriculum sheet for the HBHS BS for 2012-2013 is included as Appendix I.

**2 Year Sloan MHA Requirements:**

The Sloan MHA program is a 60 credit, 4 semester cohort program. Program requirements are as follows:

*Coursework totaling a minimum of 60 credit hours (50.5 credit core curriculum).*

*Attendance of Sloan colloquium and intersession program (PAM 5990)*

*10-week summer internship*

*Capstone project requiring group effort and teamwork during the second year.*

***Required Core curriculum courses are as follows:***

PAM 5280 Population Health *or* NS 6520 Epidemiology  
PAM 5470 Microeconomics for Management & Policy  
PAM 5520 Health Care Services: Consumer & Ethical Perspectives  
PAM 5540 Legal Aspects of Health Care  
PAM 5570 Health Care Organizations  
PAM 5620 Finance I  
PAM 5630 Health Care Finance II  
PAM 5640 Health Care Resources Management & Quality Improvement  
PAM 5645 Health IT  
PAM 5660 Health Care Strategic Mgmt  
PAM 5670 Health Policy  
PAM 5690 Regression Analysis & Forecasting  
PAM 5700 Health Care Accounting  
PAM 5770 Marketing for Health Managers  
PAM 5710 Organizational Development/Human Resource in HealthCare Organizations  
PAM 5951/PAM 5952 Field Studies/Capstone (Culminating integrative project)

***Electives:***

The Sloan Program encourages students to design their own field of emphasis. In the Cornell tradition, the health services administration program allows students to select courses according to their career interests and subject to program approval, electives may be taken in any Cornell

unit. Examples of electives include courses in the areas of health care facilities planning, physician relations, healthcare supply chain management, senior living, quality improvement, services operations, human resource management, finance, and marketing.

***Thesis, dissertation, or project requirements:***

Sloan students are required to complete a two semester field studies course, PAM 5951/5952 requiring a group capstone project involving an external organization. No thesis is required.

A sample curriculum for the regular two year MHA program including sample electives is included as Table 1b. A curriculum sheet for the regular 2 year MHA program is attached as Appendix 2.

**4+1 Dual HBHS BS/MHA requirements:**

The dual 4+1 HBHS BS/MHA is a 150 credit program in which students must fulfill requirements in full for both component programs. This is accomplished by having students:

- Complete all requirements in the HBHS BS major except electives by the end of their junior year (90 credits);
- Taking an identical curriculum to regular two year Sloan MHA students during their fourth and fifth years except that waived courses may be replaced by advanced courses. (60 credits total)
- Double counting 30 credits of MHA graduate courses as HBHS electives during their fourth (senior) year to obtain sufficient total credits to enable them to satisfy graduation requirements for the HBHS BS, where they then take an additional 30 credits of graduate course work in their final year to complete requirements for the MHA degree, completing a total of 150 credits (120+30).

Where the content of required graduate courses in the MHA exceeds the content of undergraduate courses taken by the student, the student is required to take the MHA course. If a student has taken a undergraduate course comparable to the required MHA course with a grade of B or better, the program provides that they can obtain a waiver for the MHA required course conditional on taking comparable credits in an advanced course.

***Thesis, dissertation, or project requirements:***

Dual HBHS BS/MHA students are required to complete a two semester field studies course, PAM 5951/5952, requiring a group capstone project involving an external organization. No thesis is required.

A sample curriculum for the dual 4+1 HBHS BS/MHA program who has been granted these waivers is included as Table 1c.

**Admission Requirements:**

*Describe the various admissions requirements and the administrative process for making admission decisions. Address how situations will be handled when an applicant is accepted into one of the two degree programs but not the other. Specify the type of applicants eligible to apply (e.g., Cornell undergraduates only, 4 + 0.5 program students, 4 + 1 program students or any student.) Include any special admission course requirements.*

***Applicants Regular 4 Year HBHS BS:***

Admission to the regular 4 Year HBHS BS is through the Division of Nutritional Sciences.

Application requirements are:

- Completed undergraduate Common application
- Completed Cornell University Supplement to the Common Application
- Two teacher letters of recommendation
- Official secondary/high school transcript

- School Report
- Midyear Report mid-year grades
- Required standardized test scores- SAT Reasoning Test or the ACT with Writing
- Subject Test in mathematics (any level) plus choice one additional subject area.

*Applicants Regular 2 Year MHA:*

Admission to the 2 year MHA is through the Sloan Program in Health Administration.

Application requirements are:

- Completed On-line graduate application
- A statement of purpose
- Two letters of recommendation
- Transcripts of all academic work completed
- Standardized test scores GRE or GMAT

*Applicants 4+1 Dual HBHS BS/MHA:*

Admission to the 4+1 Dual HBHS BS/MHA is through the Sloan Program in Health Administration.

Application to the dual HBHS BS/MHA is limited to Cornell HBHS majors with junior standing only.

Admission is a two step process:

- 1) Eligible students apply to the dual HBHS BS/MHA in the spring of their junior year. If admitted to the dual program, they begin MHA course work in their senior year.
- 2) In the spring of their senior year, students in the dual HBHS BS/MHA program apply to the graduate school for admission to the MHA and if admitted, complete the MHA in their fifth year after graduating from Cornell at the end of their senior year with their HBHS BS.

*Application requirements for initial admission in a student's junior year to the dual HBHS BS/MHA program are:*

- Recommendation of faculty advisor
- Evidence that all major requirements for the HBHS BS program have been completed except elective requirements that may be satisfied by Sloan MHA courses. Students who do not meet this criteria will not be considered for the program.
- GPA over 3.0
- Two letters of recommendation, at least one of which must be academic
- Personal statement
- An official transcript
- Standardized test scores GRE or GMAT

*Application requirements for admission to the Graduate School during a student's Senior Year are:*

- Completed On-line graduate application
- A statement of purpose
- Two letters of recommendation
- Transcripts of all academic work completed
- Completion of graduation requirements for their HBHS BS degree.
- Satisfactory academic progress in the MHA program during a student's first year in the dual program.

**Student Enrollment and Funding:**

*Describe the projected student enrollment over time and indicate the sources and amounts of funding for those students for the duration of their degree programs. Please address all costs associated with*

student enrollment (internal and external fellowships, assistantships, stipends, and financial aid) for both domestic and international students).<sup>2</sup>

Enrollment in the dual HBHS BS/MHA program is capped at 5 students per year where the total combined target enrollment in the dual and the regular two year MHA is 25. No new financial commitments are made to students admitted to the dual HBHS BS/MHA program.

**Institutional Concerns:**

*Comment on the University's institutional need for this change in, or addition to, the existing curriculum. In the event the proposal does not receive University and/or State approval, how else might you accomplish the goals it represents? Describe the means by which program quality is assured given the time-shortened aspect of the program, if time-shortening is involved in the dual degree program.*

The dual 4+1 dual HBHS BS/MHA permits students with a strong interest in health management to accelerate their progress to a professional degree in this area. Under the 4+1 dual degree they can complete both degrees by taking a total of 150 credits in 10 semesters while maintaining the integrity of the component programs. In the absence of this program, Cornell students desiring to obtain a MHA would need to complete a 120 credit BS degree and then enter a regular 2 year 60 credit graduate MHA program, requiring a total of 180 credits completed over 12 semesters of study.

Program quality is assured by monitoring a dashboard of quality indicators for program performance developed in connection with accreditation of the Sloan MHA program by the Committee on the Accreditation of Health Management Education (CAHME). These quality indicators include:

- Academic performance by 4+1 students in MHA courses. Minimum requirements for satisfactory academic progress are a overall GPA of 3.0 or greater and grades of B- or greater in all required core courses.
- Retention in program.
- Placement in internships and satisfactory performance in these internships.
- Job placement.
- Self-assessed competency evaluations by students.
- Preceptor assessments of student competencies in internships.

Historically, performance of dual 4+1 dual HBHS BS/MHA students is comparable or better than that of 2 year regular MHA students.

**Program Format:**

*If your proposal requires a change in format or mode of delivery (e.g., distance learning), describe the availability of relevant courses, faculty, resources, and support services (including technical support) and address all questions related to registration, tuition and funding, and graduation. If your proposal involves a change in the program calendar (e.g., a reduction from two academic years to one calendar year), address the special needs of international students (e.g., obtaining visas and compliance with all immigration regulations). Address the resolution of grievances that might arise if, for example, an international student cannot meet the degree requirements in the allotted time because of program design.*

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<sup>2</sup> Note: Degrees conferred by dual programs, whether domestic or international, must adhere to the degree conferral dates that currently exist at Cornell (e.g., mid-January, the end of May, and the end of August).



The dual HBHS BS/MHA does not involve any change in program format. HBHS BS/MHA students must meet all existing program requirements for the HBHS BS degree. The requirements for the MHA portion of the dual curriculum are identical to the requirements for the regular two year MHA degree. Students register and pay tuition as undergraduates in the College of Human Ecology during their first 4 years. They register and pay tuition as graduate students in the Graduate College in their fifth year. The program adheres to the regular academic schedule. There have been no issues regarding the ability of international students to obtain visas or meet degree requirements in the allotted time because of program design.

**Attachments:**

1. Table 1a: 4 Year HBHS BS Sample Curriculum  
Table 1b: 2 Year MHA Sample Curriculum  
Table 1c: 4+1 Year Dual HBHS BS/MHA Sample Curriculum
  2. Attach results of a faculty vote (all field faculty with voting eligibility should be polled, in both fields) and address the thinking behind negative votes or abstentions.
  3. Attach copy text for eventual publication on your college/school website and on-line application.
  4. Attach support letters from your college/school dean and other relevant academic and administrative staff. Support from both fields involved in the dual program should be clear.
  5. Attach support letters from Department Chairs or Directors of Graduate Studies from closely related fields that may perceive some impact associated with the proposed academic program change.
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**CONTACTS:**

To register undergraduate or professional dual degree programs, please contact **Kristin Walker**, Manager of Academic Support, Institutional Research and Planning.

To register graduate or doctoral dual degree programs, please contact **Kat Empson**, Assistant to the Dean, Graduate School.

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**AUTHORITY:**

- **NYSICHE**, Title 8, Chapter II: **Regulations of the Commissioner**
  - SUNY, **Office of Academic Affairs**
  - NYSED, **Office of College and University Evaluation**
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**APPENDICES:**

- NYSICHE, Registration of Postsecondary Curricula
  - SUNY, Office of Academic Affairs, Policy on **Awarding of Two Degrees at the Same Level**
  - NYSED, Policy & Guidance for **Awarding Credit for Same Courses in Different Degree Programs**
-

- Indicate title and award of existing degree program 1: X Bachelor degree Human Biology, Health and Society
  - Indicate **academic calendar** type: X Semester      Quarter      Trimester      Other (describe)
- Label each term in sequence, consistent with the academic calendar (e.g., Fall 1, Spring 1, Fall 2, etc.); copy/expand the ta

<b>Term: Fall 1</b>		<b>Term: Spring 1</b>	
Course Number & Title	Credits	Course Number & Title	Credits
ENG 1158 FWS: Am Lit & Culture	3	DSOC 1101 Introduction to Sociology	
NS 1150 Nutrition, Health and Society	3	MATH 1110 Calculus I	
BIOG 1500 Investigative Lab	2	STS 126 FWS: SCI &SOC: EXP/MED/SCI CULTU	
BIOG 1780 Evolution and Diversity	3	CHEM 2080 General Chemistry	
CHEM 2070 General Chemistry	4	P E 1245 Spinning	
*PE 1265 Wellness and Fitness	1*		
<b>Term credit total:</b>	<b>15</b>	<b>Term credit total:</b>	
<b>Term: Fall 2</b>		<b>Term: Spring 2</b>	
Course Number & Title	Credits	Course Number & Title	Credits
PAM 2350 The U.S. Health Care System	3	PAM 2100 Introduction to Statistics	
CHEM 2510 Introduction to Experimental Organic Chemistry	2	BIOMG 2810 Genetics and Genomics	
BIOG 1440 Comparative Physiology	3	ECON 1110 Introductory Microeconomics	
SPAN 1210 Elementary Spanish	4	SPAN 1220 Elementary Spanish II	
PAM 3280 Fundamentals of Population Health	3		
<b>Term credit total:</b>	<b>15</b>	<b>Term credit total:</b>	
<b>Term: Fall 3</b>		<b>Term: Spring 3</b>	
Course Number & Title	Credits	Course Number & Title	Credits
NS 3320 Methods in Nutritional Sciences	3	HD 3700 Adult Psychopathology	
NS 3450 Introduction to Physiochemical and Biological Aspects of Food	3	NS 3410 Human Anatomy and Physiology	
CHEM 3570 Introductory Organic Chemistry	3	CHEM 3580 Introductory Organic Chemistry	
NS 3200 Introduction to Human Biochemistry	4	NS 3500 Epidemiology in Context	
PHYS 1101 General Physics	4	SPAN 2090 Spanish Intermediate Composition an	
<b>Term credit total:</b>	<b>17</b>	<b>Term credit total:</b>	
<b>Term: Fall 4</b>		<b>Term: Spring 4</b>	
Course Number & Title	Credits	Course Number & Title	Credits
PAM 4050 Reproductive Health Policy	3	PAM 4380 Economics of Public Health	
PAM 4370 Health Policy and Economics	3	NS 4250 Nutrition Communications and Counselin	
NS 4410 Nutrition and Disease	4	PHIL 1310 Logic, Evidence, and Argument	
SPAN 2190 Intermediate Spanish II (Composition and Conversation)	4	SPAN 2070 Intermediate Spanish for Medical and	
<b>Term credit total:</b>	<b>14</b>	<b>Term credit total:</b>	
<b>Program Totals:</b>	<b>Credits: 120</b>	<b>* 2 PE credits required although they do not count towards the 120 total credits No thesis requirement</b>	

- Indicate title and award of existing degree program 2: \_\_\_ Sloan Program Master of Health Administration, MHA\_
- Indicate academic calendar type: X Semester \_\_\_ Quarter \_\_\_ Trimester \_\_\_ Other (describe)
- Label each term in sequence, consistent with the academic calendar (e.g., Fall1, Spring 1, Fall 2, etc.); copy/expand the table as needed.

Term: Fall 1		Term: Spring 1	
Course Number & Title	Credits	Course Number & Title	Credits
PAM 5470 Microeconomics for Management & Policy	4	PAM 5620 Finance I (4)	4
PAM 5570 Health Care Organizations	3	PAM 5540 Legal Aspects of Health Care	3
PAM 5690 Regression Analysis and Managerial Forecasting	3	PAM 5280 Population Health for Health Managers	3
PAM 5700 Health Care Accounting	4	PAM 5640 Healthcare Resource Management and Quality Improvement	3
PAM 5710 Organizational Development and Human Resource in HealthCare Organizations	3	PAM 5740 Short Course in Fundamentals of Health Facility Planning for Managers (elective)	1
		PAM 5760 Long-Term Care and Life Style Alternatives for the Older Adult (elective)	1
* PAM 5990 Challenges and Trends in HealthCare	1*	* PAM 5990 Challenges and Trends in HealthCare	
Term credit total:	17	Term credit total:	15
Term: Fall 2		Term: Spring 2	
Course Number & Title	Credits	Course Number & Title	Credits
PAM 5951 Field Studies (Capstone) (Culminating integrative project)	1	PAM 5952 Field Studies (Capstone) (Culminating integrative project)	3
PAM 5630 Health Care Finance II	3	PAM 5770 Marketing for Health Care Managers	3
PAM 5660 Strategic Management and Organizational Design of Health Care System	3	PAM 5670 Health Policy	3
PAM 5520 Health Care Services: Consumer & ethical Perspectives	3	NBA 5670 Management Writing (elective)	1.5
PAM 5641 Health Care IT	1.5	HADM 4477 Advanced Business Modeling (elective)	2
ILRCB 6011 Negotiation: Theory and Practice (elective)	4		
Term credit total:	15.5	Term credit total:	12.5
<b>Program Totals:</b>		<b>Program Totals:</b>	
Credits: 60		Credits: 60	
<ul style="list-style-type: none"> <li>PAM 5990 required but credits do not count towards 60 required for graduation</li> <li>PAM 5951 is the final capstone completed in the final year of the program</li> </ul>			

## in Health Administration

- Indicate title and award of existing degree program 1: Sample 4+1 HD Bachelor/MHA dual degree
- Indicate title and award of existing degree program 2: Master in Health Administration
- Indicate **academic calendar** type:  Semester  Quarter  Trimester  Other (describe)
- Label each term in sequence, consistent with the academic calendar (e.g., Fall 1, Spring 1, Fall 2, etc.); copy/expand the table as needed.

Term: Fall 1			Term: Spring 1		
Course Number & Title	Credits Degree 1	Dual Degree Degree 2	Course Number & Title	Credits Degree 1	Dual Degree Degree 2
NS 1150 Nutrition, Health and Society	3	3	DSOC 1101 Introduction to Sociology	3	3
ENG 1158 FWS: Am Lit & Culture	3	3	CHEM 2080 General Chemistry	4	4
CHEM 2070 General Chemistry	4	4	MATH 1110 Calculus I	4	4
BIOG 1500 Investigative Lab	2	2	FWS: SCI & SOC: EXP/MED/SCI CULTUR	3	3
BIOG 1780 Evolution and Diversity	3	3	*P E 1245 Spinning	1*	1*
*PE 1265 Wellness and Fitness	1*	1*			
<b>Term credit total:</b>	15	15	<b>Term credit total:</b>	14	14
Term: Fall 2			Term: Spring 2		
Course Number & Title	Credits Degree 1	Dual Degree Degree 2	Course Number & Title	Credits Degree 1	Dual Degree Degree 2
NS 3320 Methods in Nutritional Sciences	3	3	PAM 2100 Introduction to Statistics	4	4
CHEM 2510 Introduction to Experimental Organic Chemistry	2	2	BIOMG 2801 Laboratory in Genetics and Genomics	2	2
BIOG 1440 Comparative Physiology	3	3	CHEM 3580 Introductory Organic Chemistry	3	3
CHEM 3570 Introductory Organic Chemistry	3	3	ECON 1110 Introductory to Microeconomics	3	3
BIOMG 2800 Lectures in Genetics and Genomics	3	3	PAM 3240 Risk Management and Policy	3	3
NS 4500 Public Health Nutrition	2	2	NS 4310 Nutritional Genomics-Evolution and Environment		
<b>Term credit total:</b>	16	16	<b>Term credit total:</b>	15	15
Term: Fall 3			Term: Spring 3		
Course Number & Title	Credits Degree 1	Dual Degree Degree 2	Course Number & Title	Credits Degree 1	Dual Degree Degree 2
NS 3200 Introduction to Human Biochemistry	4	4	HD 3700 Adult Psychopathology	3	3
NS 3450 Introduction to Physiochemical and Biological Aspects of Food	3	3	NS 3410 Human Anatomy and Physiology	3	3
NS 4410 Nutrition and Disease	4	4	NS 4250 Nutrition Communications and Counseling	3	3
PHYS 1101 General Physics	4	4	PHIL 1310 Logic, Evidence, and Argument	3	3

Term credit total:		15	15	15
Term: Fall 4		Credits		
Course Number & Title	Degree 1	Degree 2	Dual Degree	
PAM 5570 Health Care Organizations	3	3	3	
PAM 5690 Regression Analysis and Managerial Forecasting	3	3	3	
PAM 5700 Health Care Accounting	4	4	4	
PAM 5710 Organizational Development and Human Resource in HealthCare Org	3	3	3	
PAM 5520 Health Care Services: Consumer & Ethical Perspectives	3	3	3	
PAM 5990 Challenges and Trends in Health Care	1*			
<b>Term credit total:</b>	16	16	16	
Term: Spring 4		Credits		
Course Number & Title	Degree 1	Degree 2	Dual Degree	
PAM 5620 Finance I (4)	4	4	4	
PAM 5470 Microeconomics for Management & Policy	4	4	4	
CEE 5900 Project Management	4	4	4	
PAM 5280 Population Health for Health Managers	3	3	3	
PAM 5990 Challenges & Trends in Health Care	1*	1*	1*	
<b>Term credit total:</b>	14	14	14	
Term: Spring 4		Credits		
Course Number & Title	Degree 1	Degree 2	Dual Degree	
PAM 5952 Field Studies (Capstone) (Culminating integrative project)	1	3	3	
PAM 5770 Marketing for Health Care Managers		3	3	
PAM 5670 Health Policy		3	3	
PAM 5540 Legal Aspects of Health Care		3	3	
NBA 5670 Management Writing (elective)		1.5	1.5	
PAM 5900 Special Topics in Healthcare Finance and Management (elective)		1	1	
PAM 5990 Challenges and Trends in Health Care		1*	1*	
<b>Term credit total:</b>		14.5	14.5	
<b>Term credit total:</b>	15	15	15	15
Term: Fall 4		Credits		
Course Number & Title	Degree 1	Degree 2	Dual Degree	
PAM 5951 Field Studies (Capstone) (Culminating integrative project)	1	1	1	
PAM 5630 Health Care Finance II		3	3	
PAM 5660 Strategic Management and Organizational Design of Health Care System		3	3	
PAM 5520 Health Care Services: Consumer & ethical Perspectives		3	3	
PAM 5641 Health Care IT		1.5	1.5	
ILRCB 6011 Negotiation: Theory and Practice (elective)		4	4	
PAM 5990 Challenges and Trends in Health Care		1*	1*	
<b>Term credit total:</b>		15.5	15.5	
<b>Term credit total:</b>	15	15	15	15
<b>Program Totals: Dual Degree</b>	<b>Credits: 150</b>	<b>* PE classes do not count towards 150 credits</b>		

## Year 1 Curriculum (2011 – 2012)

Fall Semester	Semester Hours	Spring Semester	Semester Hours
PAM 5470 Microeconomics for Management & Policy Health Care	4	HADM 6030 Healthcare Resource Management and Quality Improvement.	3
PAM 5570 Organization Regression Analysis & Managerial Forecasting.	3	NS 6520 Foundations of Epidemiology or Population Health for Health Managers	3
PAM 5690 Health Care Accounting	4	PAM 5280 Finance I	4
PAM 5700 Organizational Development & Human Resource in Health Care Organizations	3	PAM 5620 Legal Aspects of Health Care Elective	3
PAM 5710 Challenges & Trends in Health Care	1	PAM 5540 Challenges & Trends in Health Care	3
PAM 5990*	1	PAM 5990*	1
<i>Total</i>	17 (18)	<i>Total</i>	16 (17)

### Required Summer 2012 Internship (10 weeks)

## Year 2 Curriculum (2012 – 2013)

Fall Semester	Semester Hours	Spring Semester	Semester Hours
PAM 5470 Field Studies (Capstone)	1	PAM 5952 Field Studies (Capstone)	3
PAM 5520 Health Care Services: Consumer & Ethical Perspectives	3	PAM 5770 Marketing for Health Care Managers	3
PAM 5630 Health Care Finance II	3	PAM 5670 Health Policy	3
PAM 5641 Health Care IT	1.5	Elective	3-4
PAM 5660 Strategic Management & Organizational Design of Health Care Systems	3	PAM 5990* Challenges & Trends in Health Care	1
Electives	3		
Challenges & Trends in Health Care Total	1 14.5 (15.5)	<i>Total</i>	13 (14)

**PROGRAM TOTALS Required core hours**  
**Required elective hours\*\* Minimum credits required to graduate**

50.5 9.5 60\* (64)

\*PAM 5990 is required as an S/U grade, however, it is not counted towards the 60-credit graduation requirement. PAM 5990 also includes the required annual Sloan Intercession field trip. \*\*Students may take more than 9.5 elective credits.

# Human Biology, Health & Society

Credits

6

The requirements listed below pertain to all students matriculating in August 2012 and January 2013.

## I. Distribution Requirements

39-47

8

**A. Natural Sciences: Introductory Chemistry**  
Choose one of the following sequences:  
CHEM 2070 and 2080 General Chemistry  
CHEM 2150 and 2160 General and Inorganic Chemistry

6

**B. Social Sciences**  
An introductory course in two different social sciences.  
Choose one course in any two of the following four areas:

**Anthropology**  
ANTHR 1400 Introduction to Anthropology: The Comparison of Cultures

**Economics**

ECON 1110 Introductory Microeconomics OR  
ECON 1120 Introductory Macroeconomics

**Psychology**

HD 1150 Human Development: Infancy and Childhood OR  
HD 1170 Human Development: Adolescence and Emerging Adulthood OR  
PSYCH 1101 Introduction to Psychology

**Sociology**

DSOC 1101 Introduction to Sociology OR  
SOC 1101 Introduction to Sociology

**C. Humanities**

Recommended: Ethics, Philosophy  
Language credit may not be counted here.

Includes literature, history (including art and design history), philosophy, religion, and archaeology. Critical, historical, and theoretical studies of the arts and design are considered humanities. Languages and creative or performing arts such as the writing of fiction or poetry, painting, sculpting, designing, composing or performing music, acting, directing, and dance are not considered humanities.

040512

## D. Written Communications

Must be First-Year Writing Seminars.

**MUST BE COMPLETED DURING FIRST 2 SEMESTERS.**

## E. Quantitative and Analytical

7-8

a. Either Statistics or Calculus must be taken at Cornell unless you have earned a score of 3 or higher on AP Calculus BC.

b. Once the above requirement is met other AP credit from Calculus AB (a score of 3 or higher) or Statistics (a score of 4 or 5) may be applied to the Quantitative and Analytical requirement if the content is not overlapping.

1. Calculus/Advanced Math  
Choose one of the following:  
MATH 1105, MATH 1106, MATH 1110, OR Higher level calculus

\*Calculus or higher level math is generally needed for premed or grad study

2. Statistics  
Choose one of the following:  
PAM 2100, AEM 2100, BTRY 3010, ILRST 2100, MATH 1710, PSYCH 3500

## F. Additional requirements

9-16

Courses from any natural science, social science, humanities, or mathematics courses can be counted here for remaining credits.

**Organic Chemistry Lecture (6-credit minimum for premeds)**

Choose one of the following sequences:

CHEM 1570 Elementary Organic Chemistry (not for premeds)

CHEM 3570 and 3580 Introductory Organic Chemistry

CHEM 3590 and 3600 Organic Chemistry

**Organic Chemistry Lab**

Choose one of the following:

CHEM 2510 Introduction to Experimental Organic Chemistry

CHEM 3010 Experimental Chemistry

**Physics**

PHYS 1101 General Physics I OR

PHYS 2207 Fundamentals of Physics

In addition, if premed or interested in graduate study in prephysical therapy/exercise sciences, then take one of the following:

PHYS 1102 General Physics II OR

PHYS 2208 Fundamentals of Physics

2012-13

## Credits

39-41

## II. Requirements in the Major

A. Biology Foundation Courses  
(NS courses count toward 43 required HUMEC credits)  
II.A.1. Introductory Biology Lecture and Lab  
Choose one of the following two sequences (A.1.a. OR A.1.b.):

A.1.a. BIOG 1500 Investigative Lab (F/S, 2 cr) AND

Choose two out of three from the following lecture options:

- (a) BIOMG 1350 Cell and Development (F/S, 3 cr)
- (b) BIOG 1440 Comparative Physiology (F/S, 3 cr)
- (c) BIOEE 1610 Ecology and the Environment (F/S, 3cr) OR\*  
BIOEE 1780 Evolution and Diversity (F/S, 3cr)

\*Cannot take both BIOEE 1610 and BIOEE 1780 to fulfill this requirement

A.1.b. BIOG 1105 (F, 4 cr) and 1106 (S, 4 cr) Introductory Biology (auto-tutorial)

## II.A.2. Physiology

NS 3410 Human Anatomy and Physiology (S, 3 cr) OR  
BIOAP 3110 Animal Physiology (F, 3 cr)

## II.A.3. Biochemistry

Choose one of the following:

NS 3200 Introduction to Human Biochemistry (F,4 cr)  
BIOMG 3300 Principles of Biochemistry (F/S, 4 cr)  
BIOMG 3310 (F, 3 cr) and BIOMG 3320 (S, 2 cr) Principles of Biochemistry  
BIOMG 3310 Principles of Biochemistry (F, 3 cr) and BIOMI 2900 General  
Microbiology (F/S, 3 cr)  
BIOMG 3330 Principles of Biochemistry (Su, 4 cr)  
BIOMG 3350 Principles of Biochemistry (S, 4cr)

## II.A.4. Biology Electives

(6 additional credits selected from didactic courses in the following areas that relate to human biology and require one year of introductory biology. May not include Special Studies (e.g., NS 4000, 4010, 4020, 4030) or independent research credits (e.g., NS 4990).

- Genetics, recommended (including BIOMG 2800 and 2810)
- Microbiology (including BIOMI 2900, if not used for Biochem req. and VETMI 4310)
- Neurobiology (including BIONB 2210, 2220 and 4280)
- Evolution (including NS 2750)
- Cell Biology (including BIOMG 4320)
- Physiology (including BIOAP 4890. May use NS 3410 or BIOAP 3110 if both are taken)

040512

## Credits

### Biology Electives (continued)

- Biochemistry (may not include BIOMG 3300, 3310, or 3320, 3350, or NS 3200) (e.g. NS 3310 - if NS 3310 is not used as a HBHS Selective)
- Nutrition (may use NS 3220, 3420, 3470, 4310, 4315, 4370, 4410, 4444 - if these are not used as a HBHS Selective)

### B. Survey Course

II.B.1. Introduction to HBHS and Nutrition  
NS 1150 Nutrition, Health and Society

C. HBHS Selectives: Students must take a total of 15 credits as broken down in the following categories and are encouraged to choose at least one course on development (+), policy (\*), and professional problem-solving (\*). In addition, three (3) of these 15 credits must be from a Nutritional Science (NS) Course.

### II.C.1. Social Science Perspective on Health

- NS 2450 Social Science Perspectives on Food and Nutrition (F, 3 cr)
- NS 4250 Nutrition Communications and Counseling (S, 3 cr)
- NS 4450/AEM 4450 Toward a Sustainable Global Food System: Food Policy for Developing Countries (F, 3 cr)
- NS 4500 Public Health Nutrition (S, 2 cr)
- NS 4570 Health, Poverty, and Inequality: A Global Perspective (alt S, 3 cr)
- NS 4600 Explorations in Global Health (S, 3cr)
- HD 2180 Human Development: Adulthood and Aging (S, 3 cr)
- HD 2510 Social Gerontology: Aging and the Life Course (S, 3 cr)
- HD 3300 Developmental Psychopathology (S, 3 cr)
- HD 3490 Positive Psychology (F, 3 cr)
- HD 3570/SOC 3670 Social Inequalities in Physical and Mental Health (alt F, 3 cr)
- HD 3620 Human Bonding (S, 3 cr)
- HD 3700/PSYCH 3250 Adult Psychopathology (S, 3 cr)
- HD 4520 Culture and Human Development (alt S, 3 cr)
- HD 4570 Health and Social Behavior (alt F, 3 cr)
- HD 4590 Life Transitions Across the Life Span (F, 3 cr)
- HD 4770 Psychopathology in Great Works of Literature (F, 3 cr)
- \* PAM 2350 The U.S. Health Care System (S, 3 cr)
- PAM 3110 Pharmaceutical Management and Policy (S, 3 cr)
- \*\* PAM 3240 Risk Management and Policy (F, 3 cr)
- PAM 3280 Fundamentals of Population Health (F, 3 cr)
- PAM 3500 Contemporary Issues in Women's Health (F 3 or 5 cr)
- PAM 4280 Economics of Health Behaviors (F, 3 cr)
- PAM 4370 Economics of Health Policy (S, 3 cr)
- PAM 4380 Economics of Public Health (S, 3 cr)

2012-13



## Credits

6

- II.C.2. Natural Science Perspective on Health**  
NS 2750 Human Biology and Evolution (alt F, 3 cr)  
+ NS 3220 Maternal and Child Nutrition (alt S, 3 cr)  
^ NS 3310 Physiological and Biochemical Bases of Human Nutrition (S, 4 cr)  
NS 3320 Methods in Nutritional Sciences (F, 3 cr)  
NS 3450 Introduction to Physiochemical and Biological Aspects of Food (F, 3 cr)  
NS 4130 Nutritional Genomics-Evolution and Environment (S, 2 cr)  
NS 4210 Nutrition and Exercise (Su, 3 cr)  
NS 4310 Mineral Nutrition and Chronic Disease (F, 3 cr)  
NS 4315 Nutrient Requirements and Recommendations: Biological Aspects (S, 3 cr)  
NS 4370 Nutrition, Immunology and Infectious Diseases (S, 2 cr)  
NS 4410 Nutrition and Disease (F, 4 cr)  
^ NS 4420 Implementation of Nutrition Care (F, 3 cr)  
NS 4444 Sports Nutrition and Supplements, Concepts and Evidence (S, 3 cr)  
+ NS 4750 Mechanisms Underlying Mammalian Developmental Defects (alt S, 3 cr)  
NS 6140 Topics in Maternal and Child Nutrition (F, 3 cr)  
NS 6310 Micronutrients: Function, Homeostasis and Assessment (F, 2-4 cr)  
NS 6320 Regulation of Macronutrient Metabolism (S, 4 cr)  
HD 2200 The Human Brain and Mind: Biological Issues in Human Development (S, 3cr)  
HD 3200 Human Developmental Neuropsychology (S, 3 cr)  
+ HD 3440 Infant Behavior and Development (F, 3 cr)  
HD 3660 Affective and Social Neuroscience (S, 3 cr)  
HD 4660 Psychobiology of Temperament and Personality (F, 3 cr)  
HD 4780 Attention Deficit-hyperactivity Disorder in Children (alt S, 3 cr)  
^ DEA 4700 Applied Ergonomic Methods (alt S, 3 cr)  
FSAD 4390 Biomedical Materials and Devices for Human Body (S, 3 cr)  
PAMI 3800 Human Sexuality (S, 4 cr)

## II.C.3. Additional Credits

*Includes courses from either of the above categories or from the following:*

- 3  
+ NS 3060 Nutritional Problems of Developing Nations (alt F, 3 cr)  
NS 3150 Obesity and Regulation of Body Weight (alt S, 3 cr)  
+ NS 3470/HD 3470 Human Growth and Development:  
Biological and Behavioral Interactions (alt S, 3 cr)  
NS 3500 Epidermology in Context (S, 3 cr)  
^ CHE Special Studies 4000, 4010, 4020 and 4990

## III. Electives

Variable

## IV: Physical Education

Physical education does not count toward college and university minimum credit requirements for full-time status.

## Total Credits (exclusive of PE)

120

## College Requirements:

- Students must complete a minimum of 9 HUMECE credits outside of NS/HEHS. These credits are given for any Human Ecology course outside your major from Category I, II, or III. These can be taken S/U only if course is NOT used to fulfill a curriculum requirement.
- Students must complete a minimum of 43 HUMECE credits. Hum Ec credits are given in Category I (distribution), Category II (in your major) and Category III (electives).
- Biology & Society (BSOC) courses do not count as Human Ecology credit or towards the 9 HE credits outside the major.
- Pass/Fail Courses [S/U]
  - o S/U grading option may NOT be used for any required course (i.e., distribution requirements in Category I or major courses in Category II) unless it is the only grade option offered for those courses.
  - o S/Us MAY be used for the 9 credits of Human Ecology coursework outside of the major and for electives in Category III.
  - o Students may apply no more than 12 credits of S/U towards graduation requirements. If a required course is only offered S/U, it will not count towards this limit. Students may take more S/Us if they choose, but the additional credit will not be applied towards graduation.
  - o The deadline for changing grade options is 7 weeks after the start of classes, the same as the "drop" deadline.
- Special Study Courses [4000, 4010, 4020, 4030]
  - o A total of 12 credits of special study course work from Human Ecology or other colleges will count towards the 120 graduation credit requirement. [Additional credits can be taken but will not be applied.]
  - o A maximum of three credits of 4000-4020 (not including 4030) may count towards the "credit outside the major" category as long as the special study is in a department outside the student's major.
  - o Students cannot TA (4030) the same course for credit more than once or take and TA the same course simultaneously. 4030 does not fulfill any requirements towards the major. Registration for 4030 may not exceed 5 credit hours per semester.
- Students must complete 120 credits overall, exclusive of physical education and "00" courses.
- Elective credits can be earned in Human Ecology or elsewhere.

**2. Results of a faculty vote (all field faculty with voting eligibility should be polled, in both fields) and address the thinking behind negative votes or abstentions.**

**Division of Nutritional Science:**

February 24: 23 Yes, 0 No, 0 Abstain.

**Policy Analysis and Management:**

April 22, 2013: 18 Yes, 0 No, 0 Abstain

**3. Copy text for eventual publication on your college/school website and on-line application:**

**Website Description:**

***Cornell 5 year Accelerated 4+1 HBHS Bachelors/MHA Program***

**Eligibility:**

Cornell Undergraduates majors in Human Biology, Health and Society (HBHS) are eligible to apply to the Sloan Program in their junior year for a 4+1 accelerated 5-year HBHS Bachelors/MHA degree. The application process is described below.

**Program of Study:**

Founded in 1955, the Sloan Program in Health Administration has been at the forefront of health administration education and research for fifty years was the nation's first two year academic program in the field. Its name recognizes the generosity of the Alfred P Sloan, Jr. Foundation, which selected Cornell to develop the new program and provided its original funding.

The Sloan Program is a two-year, 60 credit non-thesis, in-residence graduate program culminating in a Master of Health Administration (M.H.A.) degree. Course work includes classes in management, health services systems, population health, quantitative methods, law and ethics, insurance and managed care, health-care financing and economics, health policy, and strategic management. The M.H.A. portion of the HBHS Bachelors /MHA program is accredited by the Committee on Accreditation for Health Management Education (CAHME). The Bachelors portion of the HBHS Bachelors /MHA program is accredited by the Middle States Commission on Higher Education.

Classroom learning in the Sloan Program is complemented by a range of practical learning experiences. Students are required to undertake a ten-week summer internship, which is undertaken between the first and second years. Students select and secure summer internships with health-care organizations from around the world. The curriculum is supplemented by the Sloan Colloquium Series, which brings practitioners and researchers to Cornell throughout the academic year for seminars and presentations, and by the winter intersession trips, in which students meet with national policy makers and health-care leaders. Sloan students have numerous opportunities to interface with a very active alumni association, numbering 800 strong and represented by a 10-member executive

board that visits the campus twice a year. Mentoring by experienced practitioners is also available through the Sloan Executive in Residence Program,

### **Structure of the 4+1 degree:**

During the senior year the student will take 1<sup>st</sup> year Sloan courses, which will be double counted, to satisfy both undergraduate requirements for the HBHS major as well as graduate requirements. At the end of the senior year, the student will graduate with a HBHS Bachelors degree. During the spring of their senior year, the student is required to file a formal *on-line* graduate school application. If the student's performance satisfies criteria for satisfactory academic progress in the Sloan Program, the student will be automatically notified during the spring semester of the senior year that he or she has been formally accepted into the Graduate School for an MHA.

Students are required to participate in a health administration internship during the summer after graduation with their Bachelors. The following year, as graduate students, they will complete the second year of required Sloan courses and earn a Master of Health Administration.

### **Sloan Graduate Opportunities:**

Graduates of the Sloan HBHS 4+1 Bachelors/MHA program experience outstanding employment and fellowship opportunities. On average, in recent years more than 90 percent are placed within three months of graduation. Graduates work in hospitals and health systems, management consulting firms and a range of other health related organizations.

### **Eligibility for the 4+1 Accelerated 5 year HBHS Bachelors/MHA program:**

In order to be eligible for consideration for the HBHS Bachelors/MHA 4+1 program, students must:

- Have Junior standing at Cornell with a major in HBHS
- Have a cumulative undergraduate GPA of 3.0 or above.
- Have completed *all* of the *required courses* for your HBHS undergraduate major and have *only* general electives left to take in your senior year.  
*Because Sloan courses represent a full academic load, students will only take Sloan courses or Sloan approved electives in their senior year.*

### **Application Process:**

There is a two part application process for the 4+1 Accelerated 5 year HBHS Bachelors/MHA program:

#### **1) Application During Your Junior Year:**

To apply for entry into the 4+1 Accelerated 5 year HBHS Bachelors/MHA program, you should submit the following:

- Completed Application for 4+1 HBHS Bachelors/MHA program
- Personal statement
- Two letters of recommendation
- Faculty advisor recommendation
- Official transcripts for Cornell and any other college level study
- Test scores for either:
  - GRE, institution code 2098
  - GMAT, institution code 2104;

#### **2) Formal Application to the Graduate School During Your Senior Year**

At the end of your first year, you must submit all of the following to continue in the 4+1 program:

- A completed *on-line* graduate application form
- A statement of purpose
- Two letters of recommendation
- Transcripts of all academic work completed, including evidence of an undergraduate degree

All new documents must be submitted to the HBHS field office, MVR Hall. Please refer any questions about the application process to Geysa Smiljanic, PAM Graduate Field Office, MVR Hall.

**Deadlines for Initial Application:**

- For full consideration, the **deadline for the Sloan 4+1 Accelerated HBHS Bachelors/MHA Program is March 15<sup>th</sup> and not April 15<sup>th</sup>**, which is the deadline for the regular program.
- Applications for the Accelerated program received prior to March 15th will all be reviewed at one time and applicants will be notified of the results of admission decisions by April 5.
- Applications received after March 15<sup>th</sup> but before April 15<sup>th</sup> will be reviewed on a rolling basis subject to space availability. Note that total enrollment in the 4+1 Accelerated program is limited to a maximum of 5 students.

**Correspondence and Information:**

Geysa Smiljanic  
Graduate Field Office, MVR Hall  
Department of Policy Analysis and Management  
College of Human Ecology  
Cornell University  
Ithaca, New York 14853-4401  
Telephone: 607-255-7772  
FAX: 607-255-4071  
E-mail: [gms3@cornell.edu](mailto:gms3@cornell.edu)  
Web Site: <http://www.human.cornell.edu/pam/sloan>

**Application Form:**

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CORNELL UNIVERSITY  
5-year HBHS BACHELOR/MHA  
*Application Form*

Date: \_\_\_\_\_

Name: \_\_\_\_\_ C.U.I.D.: \_\_\_\_\_

Local Address: \_\_\_\_\_ (Address good until): \_\_\_\_\_

Local Telephone: \_\_\_\_\_ Cell#: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Permanent/Home Address: \_\_\_\_\_

Permanent/Home Telephone: \_\_\_\_\_

*Current academic information:*

Year in college: \_\_\_\_\_ GPA: \_\_\_\_\_ Major: **HBHS** Department: **DNS**

GRE Scores: Verbal: \_\_\_\_\_, Quantitative: \_\_\_\_\_, Analytical Writing \_\_\_\_\_ or

GMAT Scores: Verbal: \_\_\_\_\_, Quantitative: \_\_\_\_\_, Total: \_\_\_\_\_, Analytical Writing: \_\_\_\_\_

Undergrad Faculty Advisor: \_\_\_\_\_ Phone#: \_\_\_\_\_ Email: \_\_\_\_\_

*Work Experience if any (as volunteer or for pay):*

In the health industry: \_\_\_\_\_

\_\_\_\_\_

Other: \_\_\_\_\_

\_\_\_\_\_

Citizenship: \_\_\_\_\_ Country of Birth: \_\_\_\_\_ Date of Birth: \_\_\_\_\_ Gender: \_\_\_\_\_

U.S. citizens and permanent residents only: The U.S. Dept. of Education requires Cornell Univ. to report of the racial or ethnic composition voluntarily. Please answer the questions below.

Are you Hispanic or Latino (a person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish origin)? \_\_\_\_\_

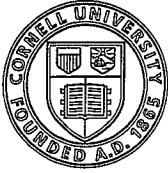
Please select one or more of the ethnicities below with which you identify:

- |   |                 |                           |
|---|-----------------|---------------------------|
| American Indian or Alaska Native          | Asian American  | Black or African American |
| Native Hawaiian or Other Pacific Islander | White/Caucasian |                           |

mail completed form to Geysa Smiljanic – gms3@cornell.edu

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**4. Support letters from college dean, HBHS Chair, and PAM Chair.**



Cornell University

College of Human Ecology

Alan Mathios

Rebecca Q. and James C. Morgan Dean

142 MVR Hall

Ithaca, New York 14853-4203

t. 607.255.2138

f. 607.255.3794

e. adm5@cornell.edu

April 24, 2013

Barbara Knuth  
Vice Provost and Dean of the Graduate School  
Day Hall, Room 501G  
Cornell University, Ithaca NY 14850

Dear Dean Knuth,

I am writing in support of the application for registration of a dual 4 + 1 program for a Bachelor of Science (BS) in Human Biology, Health and Society (HBHS) in the Division of Nutritional Sciences (DNS) and a Master in Health Administration (MHA) in the Department of Policy Analysis and Management (PAM).

The dual HBHS BS/MHA program provides an excellent opportunity for motivated HBHS students in DNS seeking careers in health administration, enabling them to complete a HBHS bachelor's degree and a Master of Health Administration in PAM in a total of 5 years of study versus the 6 years that would be required to complete these degrees separately. Further, the dual HBHS BS/MHA program has a rigorous multidisciplinary 150 credit curriculum in which students must complete an additional 30 credits of graduate study after completing 120 credits towards their undergraduate degree. This is consistent with a commitment to strong pedagogy in College of Human Ecology and the mission of the College to address contemporary societal problems through a multidisciplinary approach and to train graduates to pursue careers in a wide variety of fields that includes health and health care.

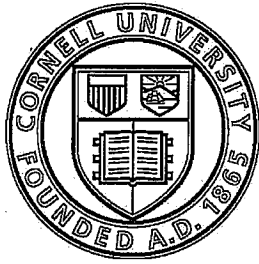
All resources required for the dual HD BS/MHA are already in place and no new commitments are required by DNS, PAM or the College of Human Ecology, while there is demonstrated demand for the dual HBHS BS/ MHA and the placement record for graduates has been outstanding.

For all these reasons, I strongly support this program and the opportunity it offers to motivated HD undergraduates.

Sincerely,

A handwritten signature in cursive script that reads "Alan Mathios".

Alan Mathios  
*Rebecca Q. and James C. Morgan Dean*  
College of Human Ecology



# Cornell University

## Division of Nutritional Sciences

4/19/2013

Barbara Knuth  
Vice Provost and Dean of the Graduate School  
Day Hall, Room 501G  
Cornell University, Ithaca NY 14850

Dear Dean Knuth,

I am writing to support the application for registration of the proposed dual 4 + 1 program combining a Bachelor of Science (BS) in Human Biology, Health and Society (HBHS) in the Division of Nutritional Sciences and a Master in Health Administration (MHA) in the Department of Policy Analysis and Management.

The HBHS BS undergraduate major is a 4 year 120 credit bachelor's program in the Division of Nutritional Sciences. The mission of the program is to address human health issues from a broad, multidisciplinary perspective. Students are required to develop a strong background in human biology so that they can understand the physiological and biochemical aspects of health issues. The program also requires students to draw on perspectives from both the biological sciences and the social sciences to examine health issues. The goal of the HBHS major is to prepare students toward a career in the health field. The HBHS major is excellent preparation for graduate and professional schools leading to careers in areas such as medicine, the allied health professions, biomedical research, dietetics and health administration and policy.

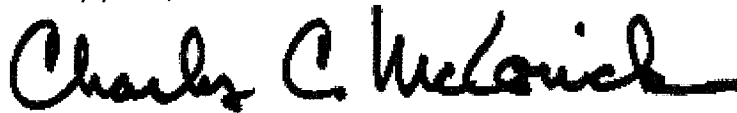
For those HBHS major specifically interested in a career in health administration, the dual HBHS BS/MHA program provides an opportunity for the motivated student to accelerate their careers by completing a HBHS bachelor's degree and a Master of Health Administration in PAM's Sloan Program in Health Administration in a total of 5 years of study versus the 6 years that would be required to complete these degrees separately, while maintaining the integrity of both constituent programs. Students in the dual program complete a total of 120 credits towards their HBHS BS degree, including 30 credits of graduate work double counted towards their MHA degree, fully filling all of the requirements for a HBHS BS. They then enroll in the Graduate School and take an additional 30 credits of graduate courses in the MHA program, fully fulfilling the requirements for the MHA and completing a total of 150 credits in total.



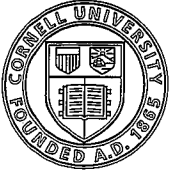
All required resources for the dual HBHS BS/MHA are already in place. No new commitments are required at the department or college level. Moreover, there is strong demand for the program, while the placement rate for graduates of the program has been excellent.

In summary, the dual HBHS BS/MHA program makes a valuable addition to the degree options available in the Division of Nutritional Sciences and we in the Division give strong support to approval of the registration application for this program.

Sincerely yours,

A handwritten signature in black ink that reads "Charles C. McCormick". The signature is written in a cursive style with a large, prominent initial "C".

Charles McCormick  
Director of Graduate Studies  
Division of Nutritional Sciences  
Cornell University



Cornell University  
College of Human Ecology

Policy Analysis and Management

120 Martha Van Rensselaer Hall  
Ithaca, NY 14853  
t. (607)255-7770  
f. (607)255-4071  
[www.human.cornell.edu/PAM](http://www.human.cornell.edu/PAM)

April 22, 2013

Barbara Knuth  
Vice Provost and Dean of the Graduate School  
Day Hall, Room 501G  
Cornell University, Ithaca NY 14850

Dear Dean Knuth,

As the chair of the Department of Policy Analysis and Management (PAM), the home department for the Sloan Master in Health Administration (MHA) program, I am writing in support of the application for registration of a dual 4 + 1 program for a Bachelor of Science (BS) in the Division of Nutritional Sciences (DNS) in Human Biology, Health and Society (HBHS) and a Master in Health Administration (MHA).

Offering a dual HBHS BS/MHA in cooperation with DNS fits well with the mission and goals of the Department of Policy Analysis to prepare students for leadership as policy makers, analysts, and managers in both the public and private sectors, including health management.

The dual HBHS BS/MHA program provides an excellent opportunity for motivated HBHS students to pursue a career in health administration by allowing them to complete a HBHS bachelor's degree and a Master of Health Administration in PAM's Sloan Program in Health Administration in a total of 5 years of study versus the 6 years that would be required to complete these degrees separately. Further, the curriculum of the dual HBHS BS/MHA maintains the integrity of both the HBHS BS program and the MHA program. Students in the dual program complete 120 credits towards their HBHS BS degree, including 30 credits of graduate work double counted towards their MHA degree. They then enroll in the Graduate School and take an additional 30 credits of graduate courses to complete their MHA requirements for a total of 150 credits.

All required resources for the dual HBHS BS/MHA are already in place. No new commitments are required at the department or college level. Further, there is demonstrated demand for the program and the placement rate for graduates of the program is excellent.

In conclusion, I believe the dual HBHS BS/MHA program makes a valuable addition to the degree options available in Sloan MHA Program and strongly support approval of the registration application for this program.

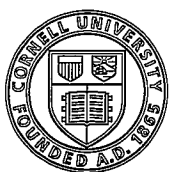
Sincerely,

A handwritten signature in black ink, appearing to be "W. M. C. S.", written in a cursive style.

Rosemary J. Avery  
Weiss Presidential Fellow  
Professor and Chair  
Department of Policy Analysis and Management  
Cornell University

**Attach support letters from Department Chairs or Directors of Graduate Studies from closely related fields that may perceive some impact associated with the proposed academic program change.**

Not applicable



**Responsible Office:**  
**Institutional Research & Planning**  
**The Graduate School**

**Contacts:**

**Kristin Walker**  
*Manager of Academic Support,*  
 Institutional Research & Planning

**Kat Empson**  
*Assistant to the Dean,*  
 The Graduate School

# ACADEMIC PROGRAM REGISTRATION

**Policy Title:**  
**Guidelines for the Approval and Registration of Dual Degree Programs**

**Release / Revision Date:**  
 October 17, 2011

**These guidelines apply to Cornell University:**

- Undergraduate Colleges (submit to **Kristin Walker**)
- Graduate Fields (submit to **Kat Empson**)
- Professional Schools (submit to **Kristin Walker**)

**Table of Contents:**

- Summary
- Approval and Registration Process
- Proposal Format
- Contacts
- Authority
- Appendices

**SUMMARY:**

These guidelines describe the requirements for the official approval of a dual degree program by Cornell University and the official registration of a dual degree program with the State University of New York (SUNY) and/ or the New York State Education Department (NYSED).

All dual degree programs must be reviewed and approved internally by Cornell and externally by SUNY and/or NYSED.

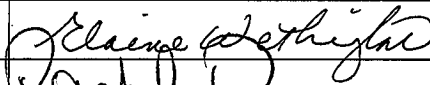
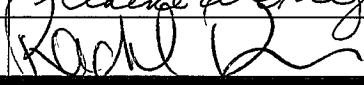
Academic program changes may not be advertised on any web sites or in any other manner, or included in the Graduate School online application until they have been approved internally by Cornell and externally by SUNY and/or NYSED (as applicable depending on the type of program).

**APPROVAL AND REGISTRATION PROCESS SEQUENCE:**

UNDERGRADUATE	GRADUATE
1. Office of Institutional Research and Planning	1. Dean of the Graduate School
2. Faculty Senate	2. General Committee of the Graduate School
3. Provost	3. Faculty Senate
4. Board of Trustees	4. Provost
5. SUNY and/or NYSED	5. Board of Trustees
6. Office of the University Registrar	6. SUNY and/or NYSED
	7. Office of the University Registrar

**PROPOSAL FORMAT:**

The completed proposal becomes part of Cornell University's public record. Faculty and staff from across the university might have reason to read or review it.

DUAL DEGREE PROPOSAL SUBMISSION DATE AND DGS APPROVALS				
Date of Proposal Submission				
DGS Signature of Degree 1				
DGS Signature of Degree 2				
FACULTY CONTACT INFORMATION FOR PROPOSED DUAL DEGREE PROGRAM				
Dept / Field	Name	Dept / Field	Email	Phone
Dept / Field 1	Elaine Wethington	HD	ew20@cornell.edu	607-255-2918
Dept / Field 2	William D. White	PAM	wdw8@cornell.edu	607-254-6476
PROPOSED DUAL DEGREE PROGRAM INFORMATION				
Degree	College or School	Dept / Field	Degree Title	Degree Award
Degree 1	<i>College Human Ecology</i>	<i>Human Development</i>	<i>Human Development</i>	<i>BS</i>
Degree 2	<i>Graduate School</i>	<i>PAM</i>	<i>Health Administration</i>	<i>MHA</i>
<i>Example:</i>	<i>Graduate School</i>	<i>Chemistry</i>	<i>Chemistry</i>	<i>MS</i>

**Narrative:**

Prepare a narrative that describes the rationale and advantages for creating or modifying this dual degree program. Comment on the proposed program's intellectual and pedagogical relevance to students and to the academy. Discuss the availability of faculty, facilities, and other support services; plans to recruit and retain students (especially those from historically underrepresented groups and women); and provisions to ensure that each student has adequate instructional support needed to complete the program requirements. Indicate the preferred beginning date of the proposed program (e.g., enrollment date).<sup>1</sup>

*Program rationale:*

The dual Bachelor of Science (BS) in Human Development (HD)/ Master in Health Administration (MHA) is a 4+1 program. The goal of this accelerated program is to enable students to combine a 4 year undergraduate degree in HD with a 2 year master's degree in health administration (MHA) in a time efficient, pedagogically rigorous manner

<sup>1</sup> Please consult the current version of the **Code of Legislation of the Graduate Faculty** as needed when preparing your proposal. And please also note that the Graduate School cannot make additional fellowship support or stipends available as a result of this change, and does not permit pro-rated tuition.

As background, the HD BS undergraduate major is a 4 year 120 credit bachelor's program whose mission is to address the psychological, social, cultural, and biological development of people from conception to old age, focusing on the processes and mechanisms of growth and change over the life course. A wide range of issues are included in the study of human development, including biological, cognitive, and emotional development; and the influence that developing humans have on their environment. The major's unique strength stems from its combination of robust theory and practical application. Students take a rigorous curriculum, focused on psychological science, biology, sociology, gerontology, statistics, research methods, and policy science. Drawing on theories from this mix of disciplines and techniques, students learn to integrate analytical thinking, research, and data analysis skills to understand the development of humans

The Sloan Program Master in Health Administration (MHA) is a 2 year 60 credit masters program whose mission is to prepare new generations of leaders to apply management and organizational expertise to the advancement of health care delivery and of, the health and well-being of people, families and communities. Graduates work for hospital and health systems, management consulting firms, insurance and pharmaceutical companies and a range of other types of organizations involved in health and healthcare. The program curriculum combines rigorous coursework in management, public health and health policy with a robust practical training component which includes a required summer internship, colloquia and practitioner taught courses bringing industry experts to campus, an annual off-campus intersession fieldtrip to meet industry leaders, and a second-year capstone project.

The rationale for the dual HD BS/MHA 4+1 year program is that it permits students with a strong interest in health management to accelerate their progress to a professional degree in this area by allowing them to obtain their BS and MHA degrees in a total of 10 semesters while maintaining a high level of rigor in their program. This is accomplished as follows. Students complete 120 credits towards their BS degree of which 30 credits are for graduate courses which are double counted towards their MHA degree. They then enroll in the Graduate School and take an additional 30 credits of graduate courses to complete their MHA requirements for a total of 150 credits.

*Pedagogical Relevance:*

Pedagogically, the dual HD BS/MHA 4+1 year program allows students to move from studying theory and methods to practical applications in their chosen vocational area. Because the content of graduate courses in the MHA equals or exceeds the content of undergraduate courses, it is deemed pedagogically appropriate that students should receive both undergraduate and graduate credit for the same work. Further, in the event a student may have taken an undergraduate course whose content equals or exceeds that of a required MHA course, the program provides that they can obtain a waiver conditional on taking comparable credits in an advanced course. A possible pedagogical concern is that, as a graduate professional program, it is desirable to have a mix of students with a range of experiences. To address this concern, total undergraduate enrollment in 4+1 dual programs are capped at 5 students per year where the total target combined enrollment for MHA (dual and regular two year students combined) is 25.

*Availability of faculty and facilities and other support services:*

The dual program was established in 2000. It has been in continuous operation ever since. All courses and faculty necessary to support the program are in place, and the MHA has recently been reaccredited. No additional resources are required.

*Plans to recruit and retain students, especially underrepresented groups and women:*

Only current Cornell HD juniors who will have fulfilled all their undergraduate requirements for their major by the end of their junior year are eligible to apply for the dual HD bachelors/MHA program. Criteria for admissions for the dual program are similar to the two year MHA regarding academic performance, standardized test scores, reference letters etc. The program actively recruits dual students at Cornell and admission is competitive, with applications generally equaling or exceeding the number of slots available. The historic completion rate for dual students (past 10 years) has been 100%.

The Department of Human Development and Sloan both have a history of conscious effort to recruit students from historically underrepresented groups and women. Currently, a majority of applicants and enrolled students in both HD and Sloan are women. Both programs also have a history of successfully recruiting students from historically underrepresented groups and recruiting historically underrepresented groups and women to the dual program is a priority.

*Adequacy instructional support:*

Adequate instructional support is in place.

*Enrollment date:*

The deadline for submitting applications for the dual HD BS/MHA program is March 15.

**Curricular Information:**

*Describe requirements for program completion (e.g., credits hours in major, in a second field, in liberal arts, electives, whether undergraduate, graduate, or doctoral, and when and how often offered, etc.); indicate the number of full-time study semesters required for program completion at the undergraduate level, graduate level, or doctoral level (as applicable). Describe thesis, dissertation, or project requirements for the two separate degree programs.*

Students in the dual HD BS/MHA program must satisfy degree requirements for: 1) an undergraduate Bachelor of Science (BS) in Human Development in the Department of Human Development (HD); and 2) a Master in Health Administration (MHA) in the Sloan Program where credits are double counted for their final year of the BS and their first year of the MHA.

**4 Year HD BS Requirements:**

The HD BS is a 120 credit 8 semester program.

Curriculum requirements are as follows:

***Foundation Courses:***

HD majors start by building a liberal arts foundation with classes in the natural and social sciences (biology, chemistry, economics, sociology, and government), the humanities (ethics), quantitative and analytical development (statistics), and written communication skills. A total of 37-41 credits are required to satisfy distribution requirements.

***Core Courses:***

At the heart of the HD undergraduate curriculum are the core courses in the major. Required core courses are as follows:

HD 1150 Intro to HD: Infancy & Childhood

HD 1170 Intro to HD: Adolescence & Emerging Adulthood

Students must take a total of two 2000-level courses in Human Development. The courses must come from two different areas.

Cognitive:

HD 2200 Human Brain & Mind: Bio. Issues in Human Development



HD 2300 Cognitive Development  
HD 2389 Thinking & Reasoning  
Social & Personality:  
HD 2600 Intro to Personality  
HD 2610 Development of Social Behavior  
Aging & Health:  
HD 2180 Human Development: Adulthood and Aging  
HD 2510 Social Gerontology: Aging and the Life Course

***Curriculum Concentration and Upper Level Electives:***

After completing required Research and Analytic Skills courses and HD Core Courses, students must take a minimum of 15 credits of 3000 or 4000 level HD courses. Students must complete a curriculum concentration with a minimum of three classes at the 3000- or 4000- level and at least one upper-level course outside the first declared concentration. Beyond this, students have the flexibility to design their electives to match both their interests and future plans for employment and graduate studies.

***Thesis, dissertation, or project requirements:*** There is no thesis, dissertation, or project requirement.

Table 1a shows a sample curriculum for a HD BS major in the regular 4 year degree program. A curriculum sheet for the HD BS for 2012-2013 is included as Appendix I.

**2 Year Sloan MHA Requirements:**

The Sloan MHA program is a 60 credit, 4 semester cohort program. Program requirements are as follows:

*Coursework totaling a minimum of 60 credit hours (50.5 credit core curriculum).*  
*Attendance of Sloan colloquium and intersession program (PAM 5990)*  
*10-week summer internship*  
*Capstone project requiring group effort and teamwork during the second year.*

***Required Core curriculum courses are as follows:***

PAM 5280 Population Health *or* NS 6520 Epidemiology  
PAM 5470 Microeconomics for Management & Policy  
PAM 5520 Health Care Services: Consumer & Ethical Perspectives  
PAM 5540 Legal Aspects of Health Care  
PAM 5570 Health Care Organizations  
PAM 5620 Finance I  
PAM 5630 Health Care Finance II  
PAM 5640 Health Care Resources Management & Quality Improvement  
PAM 5645 Health IT  
PAM 5660 Health Care Strategic Mgmt  
PAM 5670 Health Policy  
PAM 5690 Regression Analysis & Forecasting  
PAM 5700 Health Care Accounting  
PAM 5770 Marketing for Health Managers  
PAM 5710 Organizational Development/Human Resource in HealthCare Organizations  
PAM 5951/PAM 5952 Field Studies/Capstone (Culminating integrative project)

**Electives:**

The Sloan Program encourages students to design their own field of emphasis. In the Cornell tradition, the health services administration program allows students to select courses according to their career interests and subject to program approval, electives may be taken in any Cornell unit. Examples of electives include courses in the areas of health care facilities planning, physician relations, healthcare supply chain management, senior living, quality improvement, services operations, human resource management, finance, and marketing.

**Thesis, dissertation, or project requirements:**

Sloan students are required to complete a two semester field studies course, PAM 5951/5952 requiring a group capstone project involving an external organization. No thesis is required.

A sample curriculum for the regular two year MHA program including sample electives is included as Table 1b. A curriculum sheet for the regular 2 year MHA program is attached as Appendix 2.

**4+1 Dual HD BS/MHA requirements:**

The dual 4+1 HD BS/MHA is a 150 credit program in which students must fulfill requirements in full for both component programs. This is accomplished by having students:

- Complete all requirements in the HD BS major except electives by the end of their junior year (90 credits);
- Taking an identical curriculum to regular two year Sloan MHA students during their fourth and fifth years except that waived courses may be replaced by advanced courses. (60 credits total)
- Double counting 30 credits of MHA graduate courses as HD electives during their fourth (senior) year to obtain sufficient total credits to enable them to satisfy graduation requirements for the HD BS, where they then take an additional 30 credits of graduate course work in their final year to complete requirements for the MHA degree, completing a total of 150 credits (120+30).

Where the content of required graduate courses in the MHA exceeds the content of undergraduate courses taken by the student, the student is required to take the MHA course. If a student has taken a undergraduate course comparable to the required MHA course with a grade of B or better, the program provides that they can obtain a waiver for the MHA required course conditional on taking comparable credits in an advanced course.

**Thesis, dissertation, or project requirements:**

Dual HD BS/MHA students are required to complete a two semester field studies course, PAM 5951/5952, requiring a group capstone project involving an external organization. No thesis is required.

A sample curriculum for the dual 4+1 HD BS/MHA program who has been granted these waivers is included as Table 1c.

**Admission Requirements:**

*Describe the various admissions requirements and the administrative process for making admission decisions. Address how situations will be handled when an applicant is accepted into one of the two degree programs but not the other. Specify the type of applicants eligible to apply (e.g., Cornell undergraduates only, 4 + 0.5 program students, 4 + 1 program students or any student.) Include any special admission course requirements.*

**Applicants Regular 4 Year HD BS:**

Application requirements are:

- Completed undergraduate Common application

- Completed Cornell University Supplement to the Common Application
- Two teacher letters of recommendation
- Official secondary/high school transcript
- School Report
- Midyear Report mid-year grades
- Required standardized test scores- SAT Reasoning Test or the ACT with Writing
- Subject Test in mathematics (any level) plus choice one additional subject area.

*Applicants Regular 2 Year MHA:*

Application requirements are:

- Completed On-line graduate application
- A statement of purpose
- Two letters of recommendation
- Transcripts of all academic work completed
- Standardized test scores GRE or GMAT

*Applicants 4+1 Dual HD BS/MHA:*

Application to the dual HD BS/MHA is limited to Cornell HD majors with junior standing only.

Admission is a two step process:

- 1) Eligible students apply to the dual HD BS/MHA in the spring of their junior year. If admitted to the dual program, they begin MHA course work in their senior year.
- 2) In the spring of their senior year, students in the dual HD BS/MHA program apply to the graduate school for admission to the MHA and if admitted, complete the MHA in their fifth year after graduating from Cornell at the end of their senior year with their HD BS.

*Application requirements for initial admission in a student's junior year to the dual HD BS/MHA program are:*

- Recommendation of faculty advisor
- Evidence that all major requirements for the PAM BS program have been completed except elective requirements that may be satisfied by Sloan MHA courses. Students who do not meet this criteria will not be considered for the program.
- GPA over 3.0
- Two letters of recommendation, at least one of which must be academic
- Personal statement
- An official transcript
- Standardized test scores GRE or GMAT

*Application requirements for admission to the Graduate School during a student's Senior Year are:*

- Completed On-line graduate application
- A statement of purpose
- Two letters of recommendation
- Transcripts of all academic work completed
- Completion of graduation requirements for their HD BS degree.
- Satisfactory academic progress in the MHA program during a student's first year in the dual program.

**Student Enrollment and Funding:**

*Describe the projected student enrollment over time and indicate the sources and amounts of funding for those students for the duration of their degree programs. Please address all costs associated with*

*student enrollment (internal and external fellowships, assistantships, stipends, and financial aid) for both domestic and international students).*<sup>2</sup>

Enrollment in the dual HD BS/MHA program is capped at 5 students per year where the total combined target enrollment in the dual and the regular two year MHA is 25. No new financial commitments are made to students admitted to the dual HD BS/MHA program.

**Institutional Concerns:**

*Comment on the University's institutional need for this change in, or addition to, the existing curriculum. In the event the proposal does not receive University and/or State approval, how else might you accomplish the goals it represents? Describe the means by which program quality is assured given the time-shortened aspect of the program, if time-shortening is involved in the dual degree program.*

The dual 4+1 dual HD BS/MHA permits students with a strong interest in health management to accelerate their progress to a professional degree in this area. Under the 4+1 dual degree they can complete both degrees by taking a total of 150 credits in 10 semesters while maintaining the integrity of the component programs. In the absence of this program, Cornell students desiring to obtain a MHA would need to complete a 120 credit BS degree and then enter a regular 2 year 60 credit graduate MHA program, requiring a total of 180 credits completed over 12 semesters of study.

Program quality is assured by monitoring a dashboard of quality indicators for program performance developed in connection with accreditation of the Sloan MHA program by the Committee on the Accreditation of Health Management Education (CAHME). These quality indicators include:

- Academic performance by 4+1 students in MHA courses. Minimum requirements for satisfactory academic progress are a overall GPA of 3.0 or greater and grades of B- or greater in all required core courses.
- Retention in program.
- Placement in internships and satisfactory performance in these internships.
- Job placement.
- Self-assessed competency evaluations by students.
- Preceptor assessments of student competencies in internships.

Historically, performance of dual 4+1 dual HD BS/MHA students is comparable or better than that of 2 year regular MHA students.

**Program Format:**

*If your proposal requires a change in format or mode of delivery (e.g., distance learning), describe the availability of relevant courses, faculty, resources, and support services (including technical support) and address all questions related to registration, tuition and funding, and graduation. If your proposal involves a change in the program calendar (e.g., a reduction from two academic years to one calendar year), address the special needs of international students (e.g., obtaining visas and compliance with all immigration regulations). Address the resolution of grievances that might arise if, for example, an international student cannot meet the degree requirements in the allotted time because of program design.*

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<sup>2</sup> Note: Degrees conferred by dual programs, whether domestic or international, must adhere to the degree conferral dates that currently exist at Cornell (e.g., mid-January, the end of May, and the end of August).

The dual HD BS/MHA does not involve any change in program format. HD BS/MHA students must meet all existing program requirements for the HD BS degree. The requirements for the MHA portion of the dual curriculum are identical to the requirements for the regular two year MHA degree. Students register and pay tuition as undergraduates in the College of Human Ecology during their first 4 years. They register and pay tuition as graduate students in the Graduate College in their fifth year. The program adheres to the regular academic schedule. There have been no issues regarding the ability of international students to obtain visas or meet degree requirements in the allotted time because of program design.

**Attachments:**

1. Table 1a: 4 Year HD BS Sample Curriculum  
Table 1b: 2 Year MHA Sample Curriculum  
Table 1c: 4+1 Year Dual HD BS/MHA Sample Curriculum
  2. Attach results of a faculty vote (all field faculty with voting eligibility should be polled, in both fields) and address the thinking behind negative votes or abstentions.
  3. Attach copy text for eventual publication on your college/school website and on-line application.
  4. Attach support letters from your college/school dean and other relevant academic and administrative staff. Support from both fields involved in the dual program should be clear.
  5. Attach support letters from Department Chairs or Directors of Graduate Studies from closely related fields that may perceive some impact associated with the proposed academic program change.
- 

**CONTACTS:**

To register undergraduate or professional dual degree programs, please contact **Kristin Walker**, Manager of Academic Support, Institutional Research and Planning.

To register graduate or doctoral dual degree programs, please contact **Kat Empson**, Assistant to the Dean, Graduate School.

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**AUTHORITY:**

- **NYSICHE**, Title 8, Chapter II: **Regulations of the Commissioner**
  - SUNY, **Office of Academic Affairs**
  - NYSED, **Office of College and University Evaluation**
- 

**APPENDICES:**

- NYSICHE, Registration of Postsecondary Curricula
  - SUNY, Office of Academic Affairs, Policy on **Awarding of Two Degrees at the Same Level**
  - NYSED, Policy & Guidance for **Awarding Credit for Same Courses in Different Degree Programs**
-

- Indicate title and award of existing degree program 1: X Bachelor degree Policy Analysis and Management
- Indicate **academic calendar** type: X Semester      Quarter      Trimester      Other (describe)  
Label each term in sequence, consistent with the academic calendar (e.g., Fall 1, Spring 1, Fall 2, etc.); copy/expand the table as needed.

Term: Fall 1			Term: Spring 1		
Course Number & Title	Credits		Course Number & Title	Credits	
CHEM 2070 General Chemistry	4		CHEM 2080 General Chemistry	4	
BIOG 1105 Introductory Biology	4		BIOG 1106 Introductory Biology	4	
HD 1150 Introductory to HD: Infancy & Childhood	3		HD 1170 Introduction to HD: Adolescence & Emerging Adulthood	3	
FWS	3		STS 126 FWS: SCI &SOC: EXP/MED/SCI CULTUR	3	
*PE 1265 Wellness and Fitness	1*		P E 1245 Spinning	1*	
<b>Term credit total:</b>	<b>14</b>		<b>Term credit total:</b>	<b>14</b>	
Term: Fall 2			Term: Spring 2		
Course Number & Title	Credits		Course Number & Title	Credits	
MATH 1110 Calculus I	4		PAM 2100 Introduction to Statistics	4	
HD 2300 Cognitive Development	3		DEA 1500 Intro to Human Environment Relations	3	
HD 2600 Introduction to Personality	3		DSOC 1101 Introduction to Sociology	3	
ECON 1110 Introductory Microeconomics	3		AEM 1200 Introduction to Business Management	3	
GOVT 3071 Introduction to Public Policy	3		PAM 2030 Population and Public Policy	3	
<b>Term credit total:</b>	<b>16</b>		<b>Term credit total:</b>	<b>16</b>	
Term: Fall 3			Term: Spring 3		
Course Number & Title	Credits		Course Number & Title	Credits	
HD 3570 Social Inequalities in Physical and Mental Health	3		PHIL 1100 Introduction to Philosophy	3	
HD 3530 Risk and Opportunity Factors in Childhood and Adolescence	3		HD 3300 Developmental Psychopathology	3	
HD 3510 Racial and Ethnic Identity Development	4		AEM 2400 Marketing	3	
NS 1150 Nutrition, Health, and Society	3		PAM 3360 Evolving Families: Challenges to Family Policy	3	
AEM 2210 Financial Accounting	3		HD 4180 Aging: Contemporary Issues	3	
<b>Term credit total:</b>	<b>16</b>		<b>Term credit total:</b>	<b>15</b>	
Term: Fall 4			Term: Spring 4		
Course Number & Title	Credits		Course Number & Title	Credits	
HD 4250 LAB: Translational Research on Decision Making	4		HD 4200 Risk and Rational Decision Making	3	
AEM 3230 Managerial Accounting	3		HD 4520 Culture and the Human Development	3	
COMM 2010: Oral Communication	3		DEA 3500 Human Factors: Ambient Environment	3	
DEA 2500 The Environment and Social Behavior	3		DEA 3540 Facility Planning and Management Studio	4	
NS 4500 Public Health Nutrition	2		PAM 3800 Human Sexuality	3	
<b>Term credit total:</b>	<b>15</b>		<b>Term credit total:</b>	<b>14</b>	

<b>Program Totals:</b>	<b>Credits: 120</b>	<b>* 2 PE credits required although they do not count towards the 120 total credits required to graduate. No thesis requirement</b>
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- Indicate title and award of existing degree program 2: \_\_\_ Sloan Program Master of Health Administration, MHA\_
- Indicate academic calendar type: X\_Semester \_\_\_Quarter \_\_\_Trimester \_\_\_Other (describe)
- Label each term in sequence, consistent with the academic calendar (e.g., Fall1, Spring 1, Fall 2, etc.); copy/expand the table as needed.

Term: Fall 1		Term: Spring 1	
Course Number & Title	Credits	Course Number & Title	Credits
PAM 5470 Microeconomics for Management & Policy	4	PAM 5620 Finance I (4)	4
PAM 5570 Health Care Organizations	3	PAM 5540 Legal Aspects of Health Care	3
PAM 5690 Regression Analysis and Managerial Forecasting	3	PAM 5280 Population Health for Health Managers	3
PAM 5700 Health Care Accounting	4	PAM 5640 Healthcare Resource Management and Quality Improvement	3
PAM 5710 Organizational Development and Human Resource in HealthCare Organizations	3	PAM 5740 Short Course in Fundamentals of Health Facility Planning for Managers (elective)	1
		PAM 5760 Long-Term Care and Life Style Alternatives for the Older Adult (elective)	1
* PAM 5990 Challenges and Trends in HealthCare	1*	* PAM 5990 Challenges and Trends in HealthCare	
Term credit total:	17	Term credit total:	15
Term: Fall 2		Term: Spring 2	
Course Number & Title	Credits	Course Number & Title	Credits
PAM 5951 Field Studies (Capstone) (Culminating integrative project)	1	PAM 5952 Field Studies (Capstone) (Culminating integrative project)	3
PAM 5630 Health Care Finance II	3	PAM 5770 Marketing for Health Care Managers	3
PAM 5660 Strategic Management and Organizational Design of Health Care System	3	PAM 5670 Health Policy	3
PAM 5520 Health Care Services: Consumer & ethical Perspectives	3	NBA 5670 Management Writing (elective)	1.5
PAM 5641 Health Care IT	1.5	HADM 4477 Advanced Business Modeling (elective)	2
ILRCB 6011 Negotiation: Theory and Practice (elective)	4		
Term credit total:	15.5	Term credit total:	12.5
<b>Program Totals:</b>		<b>Program Totals:</b>	
Credits: 60		Credits: 60 required but credits do not count towards 60 required for graduation	
		Credits: 60 is the final capstone completed in the final year of the program	

## in Health Administration

- Indicate title and award of existing degree program 1: Sample 4+1 HD Bachelor/MHA dual degree
- Indicate title and award of existing degree program 2: Master in Health Administration
- Indicate **academic calendar** type: X Semester    Quarter    Trimester    Other (describe)
- Label each term in sequence, consistent with the academic calendar (e.g., Fall 1, Spring 1, Fall 2, etc.); copy/expand the table as needed.

<b>Term: Fall 1</b>				<b>Term: Spring 1</b>			
Course Number & Title	Credits Degree 1	Dual Degree 2	Dual Degree	Course Number & Title	Credits Degree 1	Dual Degree 2	Dual Degree
BIOG 1105 Introductory Biology	4	4	4	BIOG 1106 Introductory Biology	4	4	4
ENG 1158 FWS: Am Lit & Culture	4	4	4	CHEM 2080 General Chemistry	4	4	4
CHEM 2070 General Chemistry	3	3	3	HD 1170 Intro to HD: Adolescence & Emerging Adulthood	3	3	3
HD 1150 Intro to HD: Infancy & Childhood	3	3	3	FWS: SCI & SOC: EXP/MED/SCI CULTUR	3	3	3
*PE 1265 Wellness and Fitness	1*	1*	1*	*P E 1245 Spinning	1*	1*	1*
<b>Term credit total:</b>	14	14	14	<b>Term credit total:</b>	14	14	14
<b>Term: Fall 2</b>				<b>Term: Spring 2</b>			
Course Number & Title	Credits Degree 1	Dual Degree 2	Dual Degree	Course Number & Title	Credits Degree 1	Dual Degree 2	Dual Degree
MATH 1110 Calculus I	4	4	4	PAM 2100 Introduction to Statistics	4	4	4
HD 2300 Cognitive Development	3	3	3	DEA 1500 Introduction to Human Environment Relations	3	3	3
HD 2600 Intro to Personality	3	3	3	DSOC 1101 Introduction to Sociology	3	3	3
HD 3510 Racial and Ethnic Identity Development	3	3	3	ECON 1110 Introductory to Microeconomics	3	3	3
NS 1150 Nutrition, Health, and Society	3	3	3		3	3	3
<b>Term credit total:</b>	16	16	16	<b>Term credit total:</b>	16	16	16
<b>Term: Fall 3</b>				<b>Term: Spring 3</b>			
Course Number & Title	Credits Degree 1	Dual Degree 2	Dual Degree	Course Number & Title	Credits Degree 1	Dual Degree 2	Dual Degree
HD 3570 Social Inequalities in Physical and Mental Health	3	3	3	PHIL 1101 Introduction to Philosophy	3	3	3
HD 3530 Risk and Opportunity Factors in Childhood and Adolescence	3	3	3	HD 3300 Developmental Psychopathology	3	3	3
HD 4250 LAB: Translational Research on Decision Making	4	4	4	HD 4200 Risk and Rational Decision Making	3	3	3
ILRHR 2660 Essential Desktop Applications (elective)	2	2	2	HD 4520 Culture and the Human Development	3	3	3
NS 2450 Social Science Perspectives on Food and Nutrition (elective)	3	3	3	ECON 1120 Introduction to Macroeconomics (elective)	3	3	3
<b>Term credit total:</b>	15	15	15	<b>Term credit total:</b>	15	15	15



Term: Fall 4		Credits			Term: Spring 4	
Course Number & Title	Degree 1	Degree 2	Dual Degree	Course Number & Title	Degree 1	Dual Degree
PAM 5570 Health Care Organizations	3	3	3	PAM 5620 Finance I (4)	4	4
PAM 5690 Regression Analysis and Managerial Forecasting	3	3	3	PAM 5470 Microeconomics for Management & Policy	4	4
PAM 5700 Health Care Accounting	4	4	4	CEE 5900 Project Management	4	4
PAM 5710 Organizational Development and Human Resource in HealthCare Org	3	3	3	PAM 5280 Population Health for Health Managers	3	3
PAM 5520 Health Care Services: Consumer & Ethical Perspectives	3	3	3	PAM 5990 Challenges & Trends in Health Care	1*	1*
PAM 5990 Challenges and Trends in Health Care	1*					
<b>Term credit total:</b>	16	16	16	<b>Term credit total:</b>	14	14
Course Number & Title	Degree 1	Degree 2	Dual Degree	Course Number & Title	Degree 1	Dual Degree
PAM 5951 Field Studies (Capstone) (Culminating integrative project)	1	1	1	PAM 5952 Field Studies (Capstone) (Culminating integrative project)	3	3
PAM 5630 Health Care Finance II	3	3	3	PAM 5770 Marketing for Health Care Managers	3	3
PAM 5660 Strategic Management and Organizational Design of Health Care System	3	3	3	PAM 5670 Health Policy	3	3
PAM 5520 Health Care Services: Consumer & ethical Perspectives	3	3	3	PAM 5540 Legal Aspects of Health Care	3	3
PAM 5641 Health Care IT	1.5	1.5	1.5	NBA 5670 Management Writing (elective)	1.5	1.5
ILRCB 6011 Negotiation: Theory and Practice (elective)	4	4	4	PAM 5900 Special Topics in Healthcare Finance and Management (elective)	1	1
PAM 5990 Challenges and Trends in Health Care	1*			PAM 5990 Challenges and Trends in Health Care	1*	1*
<b>Term credit total:</b>	15.5			<b>Term credit total:</b>	14.5	14.5
<b>Program Totals: Dual Degree</b>				<b>Credits: 150</b>		
				<b>* PE classes do not count towards 150 credits</b>		

## Year 1 Curriculum (2011 – 2012)

Fall Semester	Semester Hours	Spring Semester	Semester Hours
PAM 5470 Microeconomics for Management & Policy Health Care	4	HADM 6030 Healthcare Resource Management and Quality Improvement	3
PAM 5570 Organization Regression Analysis & Managerial Forecasting	3	NS 6520 Foundations of Epidemiology or Population Health for Health Managers	3
PAM 5690 Health Care Accounting	4	PAM 5280 Finance I	4
PAM 5700 Organizational Development & Human Resource in Health Care Organizations	3	PAM 5620 Legal Aspects of Health Care Elective	3
PAM 5710 Challenges & Trends in Health Care	1	PAM 5540 Challenges & Trends in Health Care	1
PAM 5990*		PAM 5990*	
<i>Total</i>	17 (18)	<i>Total</i>	16 (17)

### Required Summer 2012 Internship (10 weeks)

## Year 2 Curriculum (2012 – 2013)

Fall Semester	Semester Hours	Spring Semester	Semester Hours
PAM 5951 Field Studies (Capstone)	1	PAM 5952 Field Studies (Capstone)	3
PAM 5520 Health Care Services: Consumer & Ethical Perspectives	3	PAM 5770 Marketing for Health Care Managers	3
PAM 5630 Health Care Finance II	3	PAM 5670 Health Policy	3
PAM 5641 Health Care IT	1.5	Elective	3-4
PAM 5660 Strategic Management & Organizational Design of Health Care Systems	3	PAM 5990* Challenges & Trends in Health Care	1
Electives	3		
Challenges & Trends in Health Care Total	1 14.5 (15.5)	<i>Total</i>	13 (14)

**PROGRAM TOTALS Required core hours**  
**Required elective hours\*\* Minimum credits required to graduate**

\*PAM 5990 is required as an S/U grade, however, it is not counted towards the 60-credit graduation requirement. PAM 5990 also includes the required annual Sloan Intersession field trip. \*\*Students may take more than 9.5 elective credits.

50.5 9.5 60\* (64)

# Human Development

2012-2013

The requirements listed below pertain to all students matriculating in August 2012 and January 2013. #

<p><b>I. Distribution Requirements</b></p> <p><b>A. Natural Sciences:</b></p> <p>A.1. Natural Science lecture (lab not required*)  <b>HD requires that the natural science lecture be a biology course.</b></p> <p>a. Score of 5 on AP Biology OR</p> <p>b. Must choose from the following list (<b>must be taken at Cornell</b>):</p> <p>BIOG 1105          BIOG 1106          BIOG 1140          BIOMG 1350* or BIOG 1440* or BIOEE 1610*</p> <p>*one semester of BIOG 1500 Investigative Lab can also be taken but is not required</p> <p><b>*Scientific Research Method practice is required</b></p> <p>May complete requirement with AP Biology score of 5 or by taking BIOG 1500, BIOG 1105, BIOG 1106 or HD 2830. Credit for HD 2830 is tallied in II.A.4.</p> <p>A.2. Natural Science (lab not required, <b>must be taken at Cornell, no AP credit</b>)</p> <p>a. Choose another biology course from the above list in A.1. OR</p> <p>b. CHEM 1560 or CHEM 2070          CHEM 2080          PHYS 1101 or PHYS 2207          PHYS 1102 or PHYS 2208 OR</p> <p>c. Choose from the Human Ecology Natural Science Approved Course list:  <b>HD recommends the courses on the list designated with an asterisk</b>  <a href="http://www.human.cornell.edu/registrar/requirements-and-policies.cfm">http://www.human.cornell.edu/registrar/requirements-and-policies.cfm</a></p> <p><b>B. Social Sciences</b></p> <p>Any two courses chosen from the following departments: Psychology, Sociology, Development Sociology, Anthropology, Economics or Government.</p> <p>Note: 1) Courses cross-listed with Human Development cannot be used to fulfill this requirement, except for HD 1840. 2) You cannot receive credit for both DSOC 1101 and SOC 1101.</p> <p><b>C. Humanities**</b></p> <p>Includes literature, history (including art and design history), philosophy, religion, and archaeology. Critical, historical, and theoretical studies of the arts and design are considered humanities. Languages and creative or performing arts such as the writing of fiction or poetry, painting, sculpting, designing, composing or performing music, acting, directing, and dance are not considered humanities.</p> <p>**HD strongly recommends that <b>students who plan to complete the HD Honors Program requirements</b> (see III.B. below) take a course in health and medical ethics (e.g. BSOC/STS 2051) to fulfill this requirement.</p>	<p><b>Credits</b></p> <p><b>37-41</b></p> <p><b>6-8</b></p> <p><b>6-8</b></p> <p><b>3</b></p>
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**D. Written Communications**  
 Must be First-Year Writing Seminars  
**MUST BE COMPLETED DURING FIRST 2 SEMESTER**

**E. Quantitative and Analytical**  
 Statistics\*\* (**must be taken at Cornell, AP Statistic**)  
 Choose one of the following:  
 AEM 2100, BTRY 3010, ILRST 2100, MATH 1710  
 (PAM 2100 can fulfill the statistics requirement and can be required outside the major and will count toward the 43 Human Ecology.)

\*\*HD strongly recommends that **students who plan to complete Program requirements** (see III.B. below) take PSYCH requirement. The HD Honors Program also requires an advanced statistics, and HD 4750 or HD 4760 is recommended.

**F. Additional requirements**  
 Any natural science, social science, humanities, language or art course can be counted here.

## II. Requirements in the Major

- A. Structural Principles**
- Must complete 30 credits of Human Development **only** (HD 4000, 4010, 4020, 4030, 4400, 4980, and and **do not** fulfill any requirements for the major). HD courses towards the 30 HD required credits in Human Development designated as LAB may count towards the 30 required credits.
  - HD 1150 (**Intro to HD: Infancy & Childhood**) and HD 1160 (**Adolescence & Emerging Adulthood**) are required.
  - Students must take a **total of two** 2000-level courses. The courses must come from **two different areas**. The courses from which students may choose are listed below. Ideally, 2000-level courses must be completed by the end of the first semester.
- Cognitive:**
- HD 2200 Human Brain & Mind: Bio. Issues in Human Development
  - HD 2300 Cognitive Development
  - HD 2380 Thinking & Reasoning
- Social & Personality:**
- HD 2600 Intro to Personality
  - HD 2610 Development of Social Behavior
- Continued on next page*

## Aging & Health:

HD 2180 Human Development: Adulthood and Aging

HD 2510 Social Gerontology: Aging and the Life Course

4. One class incorporating practice in experimental scientific research methods, chosen from the following list: AP Biology score of 5, BIOG 1500; BIOG 1105; BIOG 1106; HD 2830. The scientific methods requirement must be fulfilled before the senior year. **Students who plan to complete the HD Honors Program requirements** (see III.B below) must take HD 2830. Biology laboratory courses may not be used to fulfill the Research Methods requirement for the HD Honors program.

5. Must complete at least 15 credits in Human Development didactic courses at the 3000- and 4000-level; 3 of these credits must be at the 4000-level.

6. Must complete a **concentration in one of five areas of Human Development (listed below)**.

- A concentration consists of a **minimum of three** classes at the 3000- or 4000-level.
  - The required 4000-level course must be taken in the chosen concentration.
  - Additional concentrations may be completed. However, to complete a second (or third) concentration, students must take two unique courses that are not included in another HD concentration that they have already completed.
  - Students are strongly encouraged to take more than three courses in their chosen concentration. Students must contact the CHE Assistant Registrar by junior year to declare a concentration.
  - Students should note that some courses in Developmental Behavioral Neuroscience may require pre-requisite courses taught in Psychology or Neurobiology & Behavior
7. Must complete at least one **3000- or 4000-level course outside the first declared concentration.**

## B. Areas of Concentration

**Only HD courses taken for a letter grade may be used to fulfill concentrations and count for the 30 HD credits needed for graduation.**

### Cognitive Development

HD 3110 Educational Psychology

HD 3190 Memory and the Law

HD 3200 Human Developmental Neuropsychology

HD 3330 Children and the Law

HD 3340 Growth of the Mind

HD 3370 Language Development

HD 3380 Social Cognition and Development

HD 4200 Risk and Rational Decision Making

HD 4230 LAB: Res in Children's Testimony: Exp Social & Cognitive Mechanisms

HD 4250 LAB: Translational Research on Decision Making

HD 4260 LAB: Translational Research on Memory and Neuroscience

HD 4270 LAB: Cybertools for the Scientific Study of Language Acquisition

HD 4300 Concepts and Theories in Childhood

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HD 4310 Mind, Self, and Emotion  
HD 4320 Cognitive, Social, and Developmental Aspects of Scientific Reasoning  
HD 4330 Developmental Cognitive Neuroscience  
HD 4340 Current Topics in Cognitive Development  
HD 4350 Development of Cognitive Sex Differences  
HD 4370 LAB: Language Development  
HD 4490 Children's Learning in Social Context  
HD 4740 Autism and the Development of Social Cognition  
HD 4840 The Science of Social Behavior

### Developmental Behavioral Neuroscience

HD 3200 Human Developmental Neuropsychology

HD 3440 Infant Behavior and Development

HD 3470 Human Growth and Development: Biological and Behavioral Interactions

HD 3660 Affective and Social Neuroscience

HD 4330 Developmental Cognitive Neuroscience

HD 4660 Psychobiology of Temperament and Personality

HD 4740 Autism and the Development of Social Cognition

HD 4780 Attention Deficit/Hyperactivity Disorder in Children

HD 4840 The Science of Social Behavior

### Social & Personality Development

HD 3300 Developmental Psychopathology

HD 3380 Social Cognition and Development

HD 3420 Participation with Children, Families and Their Communities

HD 3430 Social Worlds of Childhood

HD 3460 Role and Meaning of Play

HD 3490 Positive Psychology

HD 3510 Racial and Ethnic Identity Development

HD 3530 Risk and Opportunity Factors in Childhood and Adolescence

HD 3620 Human Bonding

HD 3700 Adult Psychopathology

HD 3840 Gender and Sexual Minorities

HD 4140 Social and Psychological Aspects of the Death Penalty

HD 4150 Seminar on Emerging Adulthood

HD 4200 Risk and Rational Decision Making

HD 4220 LAB: Research in Emotion and Cognition

HD 4240 LAB: Stress, Emotions and Health

HD 4250 LAB: Translational Research on Decision Making

HD 4280 LAB: Research on Healthy Aging

HD 4310 Mind, Self, and Emotion

HD 4480 Advanced Participation with Young Children (4 credits only)

HD 4520 Culture and Human Development

HD 4590 Transitions across the Life Span

HD 4640 Adolescent Sexuality

HD 4680 Stress in Childhood and Adolescence

HD 4770 Psychopathology in Great Works of Literature

HD 4840 The Science of Social Behavior

### Aging & Health

HD 3490 Positive Psychology  
HD 3570 Social Inequalities in Physical and Mental Health  
HD 4180 Aging: Contemporary Issues  
HD 4190 Midlife Development  
HD 4200 Risk and Rational Decision Making  
HD 4220 LAB: Research in Emotion and Cognition  
HD 4240 LAB: Stress, Emotions and Health  
HD 4250 LAB: Translational Research on Decision Making  
HD 4280 LAB: Research on Healthy Aging  
HD 4570 Health and Social Behavior  
HD 4590 Transitions across the Life Span  
HD 4840 The Science of Social Behavior

### Law, Psychology and HD

HD 3190 Memory and the Law  
HD 3330 Children and the Law  
HD 4140 Social and Psychological Aspects of the Death Penalty  
HD 4200 Risk and Rational Decision Making  
HD 4230 LAB: Res in Children's Testimony: Exp Social & Cognitive Mechanisms  
HD 4250 LAB: Translational Research on Decision Making  
HD 4260 LAB: Translational Research on Memory and Neuroscience  
HD 4840 The Science of Social Behavior

### III. Electives

#### Variable

#### **A. Suggested Human Ecology electives related to HD**

*(will also fulfill HE credit outside the major)*

DEA 1500 Introduction to Human Environment Relations  
NS 1150 Nutrition, Health, and Society  
NS 2450 Social Science Perspectives on Food and Nutrition  
NS 3150 Obesity and the Regulation of Body Weight  
PAM 3360 Evolving Families: Challenges to Family Policy  
PAM 3370 Racial and Ethnic Differentiation  
PAM 3500 Contemporary Issues in Women's Health  
PAM 3800 Human Sexuality

#### **B. Human Development Honors Program**

Honors in Human Development is a two-year program. The application for the honors program should be submitted in the fall of the junior year, by October 15. Applicants must be HD majors and have a GPA of 3.5 or higher.

Applicants must complete the first statistics class before applying to the program.

#### **REQUIRED COURSE WORK**

HD 4010 research with a faculty member (begun no later than the fall semester of the junior year.

### Sophomore year:

One basic Cornell Statistics class (PSYCH 3500 is strongly recommended)  
The HD 2830, Research Methods, is strongly recommended for the sophomore year  
*Must be taken for letter grade -- no S/U allowed.*

### Junior year:

One advanced Cornell Statistics course. HD 4750 or HD 4760 is strongly recommended. (Other available courses include ILRST 2110, PAM 3100, BTRY 3020, MATH 2710). HD 4750 and HD 4760 do not count towards the 30 HD required credits in Human Development.

if necessary, HD2830 Research Methods. Students cannot be admitted to the HD Honors Program unless they have completed HD2830

*Both courses must be taken for letter grade only -- no S/U allowed.*

### Senior year:

HD 4980 Honors in Human Development AND HD 4990 Honors Seminar plus completion of the honors thesis

### **Also Recommended for the Honors Program**

One course in ethical issues in research (e.g., BSOC/STS 2051, PHIL 2450)  
Two 3000 and/or 4000 level classes relating to the topic of the honors thesis

### **IV. Physical Education**

2

Physical education does not count toward college and university minimum credit requirements for full-time status.

### **Total Credits (exclusive of PE)**

120

**2. Results of a faculty vote (all field faculty with voting eligibility should be polled, in both fields) and address the thinking behind negative votes or abstentions.**

**Field Human Development:**

February 11, 2013: 16 yes, 0 no 0, 0 abstain

**Policy Analysis and Management:**

April 22, 2013: 18 yes, 0 no 0, 0 abstain

**3. Copy text for eventual publication on your college/school website and on-line application:**

**Website Description:**

***Cornell 5 year Accelerated 4+1 HD Bachelors/MHA Program***

**Eligibility:**

Cornell Undergraduates majors in Human Development (HD) are eligible to apply to the Sloan Program in their junior year for a 4+1 accelerated 5-year HD Bachelors/MHA degree. The application process is described below.

**Program of Study:**

Founded in 1955, the Sloan Program in Health Administration has been at the forefront of health administration education and research for fifty years was the nation's first two year academic program in the field. Its name recognizes the generosity of the Alfred P Sloan, Jr. Foundation, which selected Cornell to develop the new program and provided its original funding.

The Sloan Program is a two-year, 60 credit non-thesis, in-residence graduate program culminating in a Master of Health Administration (M.H.A.) degree. Course work includes classes in management, health services systems, population health, quantitative methods, law and ethics, insurance and managed care, health-care financing and economics, health policy, and strategic management. The M.H.A. portion of the HD Bachelors /MHA program is accredited by the Committee on Accreditation for Health Management Education (CAHME). The Bachelors portion of the HD Bachelors /MHA program is accredited by the Middle States Commission on Higher Education.

Classroom learning in the Sloan Program is complemented by a range of practical learning experiences. Students are required to undertake a ten-week summer internship, which is undertaken between the first and second years. Students select and secure summer internships with health-care organizations from around the world. The curriculum is supplemented by the Sloan Colloquium Series, which brings practitioners and researchers to Cornell throughout the academic year for seminars and presentations, and by the winter intersession trips, in which students meet with national policy makers and health-care leaders. Sloan students have numerous opportunities to interface with a very active alumni association, numbering 800 strong and represented by a 10-member executive board that visits the campus twice a year. Mentoring by experienced practitioners is also available through the Sloan Executive in Residence Program,

### Structure of the 4+1 degree:

During the senior year the student will take 1<sup>st</sup> year Sloan courses, which will be double counted, to satisfy both undergraduate requirements for the HD major as well as graduate requirements. At the end of the senior year, the student will graduate with a HD Bachelors degree. During the spring of their senior year, the student is required to file a formal *on-line* graduate school application. If the student's performance satisfies criteria for satisfactory academic progress in the Sloan Program, the student will be automatically notified during the spring semester of the senior year that he or she has been formally accepted into the Graduate School for an MHA

Students are required to participate in a health administration internship during the summer after graduation with their Bachelors. The following year, as graduate students, they will complete the second year of required Sloan courses and earn a Master of Health Administration.

### Sloan Graduate Opportunities:

Graduates of the Sloan HD 4+1 Bachelors/MHA program experience outstanding employment and fellowship opportunities. On average, in recent years more than 90 percent are placed within three months of graduation. Graduates work in hospitals and health systems, management consulting firms and a range of other health related organizations.

### Eligibility for the 4+1 Accelerated 5 year HD Bachelors/MHA program:

In order to be eligible for consideration for the HD Bachelors/MHA 4+1 program, students must:

- Have Junior standing at Cornell with a major in HD
- Have a cumulative undergraduate GPA of 3.0 or above.
- Have completed *all* of the *required courses* for your HD undergraduate major and have *only* general electives left to take in your senior year.

*Because Sloan courses represent a full academic load, students will only take Sloan courses or Sloan approved electives in their senior year.*

### Application Process:

There is a two part application process for the 4+1 Accelerated 5 year HD Bachelors/MHA program:

#### 1) Application During Your Junior Year:

To apply for entry into the 4+1 Accelerated 5 year HD Bachelors/MHA program, you should submit the following:

- Completed Application for 4+1 HD Bachelors/MHA program
- Personal statement
- Two letters of recommendation
- Faculty advisor recommendation
- Official transcripts for Cornell and any other college level study
- Test scores for either:
  - GRE, institution code 2098
  - GMAT, institution code 2104;

#### 2) Formal Application to the Graduate School During Your Senior Year

At the end of your first year, you must submit all of the following to continue in the 4+1 program:

- A completed *on-line* graduate application form
- A statement of purpose
- Two letters of recommendation
- Transcripts of all academic work completed, including evidence of an undergraduate degree

**All new documents must be submitted to the HD field office, MVR Hall. Please refer any questions about the application process to Geysa Smiljanic, PAM Graduate Field Office, MVR Hall.**

### Deadlines for Initial Application:

- For full consideration, the **deadline for the Sloan 4+1 Accelerated HD Bachelors/MHA Program is March 15<sup>th</sup> and not April 15<sup>th</sup>**, which is the deadline for the regular program.

- Applications for the Accelerated program received prior to March 15th will all be reviewed at one time and applicants will be notified of the results of admission decisions by April 5.
- Applications received after March 15<sup>th</sup> but before April 15<sup>th</sup> will be reviewed on a rolling basis subject to space availability. Note that total enrollment in the 4+1 Accelerated program is limited to a maximum of 5 students.

**Correspondence and Information:**

Geysa Smiljanic  
Graduate Field Office, MVR Hall  
Department of Policy Analysis and Management  
College of Human Ecology  
Cornell University  
Ithaca, New York 14853-4401  
Telephone: 607-255-7772  
FAX: 607-255-4071  
E-mail: [gms3@cornell.edu](mailto:gms3@cornell.edu)  
Web Site: <http://www.human.cornell.edu/pam/sloan>

**Application Form:**



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CORNELL UNIVERSITY  
5-year HD BACHELOR/MHA  
*Application Form*

Date: \_\_\_\_\_

Name: \_\_\_\_\_ CU I.D.: \_\_\_\_\_

Local Address: \_\_\_\_\_ (Address good until): \_\_\_\_\_

Local Telephone: \_\_\_\_\_ Cell#: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Permanent/Home Address: \_\_\_\_\_

Permanent/Home Telephone: \_\_\_\_\_

*Current academic information:*

Year in college: \_\_\_\_\_ GPA: \_\_\_\_\_ Major: HD Department: HD

GRE Scores: Verbal: \_\_\_\_\_, Quantitative: \_\_\_\_\_, Analytical Writing \_\_\_\_\_ or

GMAT Scores: Verbal: \_\_\_\_\_, Quantitative: \_\_\_\_\_, Total: \_\_\_\_\_, Analytical Writing: \_\_\_\_\_

Undergrad Faculty Advisor: \_\_\_\_\_ Phone# : \_\_\_\_\_ Email: \_\_\_\_\_

*Work Experience if any (as volunteer or for pay):*

In the health industry: \_\_\_\_\_

Other: \_\_\_\_\_

citizenship: \_\_\_\_\_ Country of Birth: \_\_\_\_\_ Date of Birth: \_\_\_\_\_ Gender: \_\_\_\_\_

J.S. citizens and permanent residents only: The U.S. Dept. of Education requires Cornell Univ. to report of the racial or ethnic comp  
luntary. Please answer the questions below.

Are you Hispanic or Latino (a person of Cuban, Mexican, Puerto Rican, South or Central American,  
or other Spanish origin)? \_\_\_\_\_

Please select one or more of the ethnicities below with which you identify:

American Indian or Alaska Native      Asian American      Black or African American  
Native Hawaiian or Other Pacific Islander      White/Caucasian

mail completed form to Geysa Smiljanic – gms3@cornell.edu

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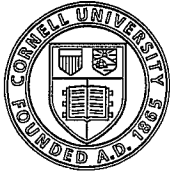
**Support letters from college dean, HD Chair, and PAM Chair.**

**Attach support letters from Department Chairs or Directors of Graduate Studies from closely related field that may perceive some impact associated with the proposed academic program change.**

Not applicable.

INSERT COPIES OF LETTERS OF APPROVAL HERE]

**4. Support letters from college dean, HD Chair, and PAM Chair.**



Cornell University

College of Human Ecology

Alan Mathios

Rebecca Q. and James C. Morgan Dean

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April 24, 2013

Barbara Knuth  
Vice Provost and Dean of the Graduate School  
Day Hall, Room 501G  
Cornell University, Ithaca NY 14850

Dear Dean Knuth,

I am writing in support of the application for registration of a dual 4 + 1 program for a Bachelor of Science (BS) in Human Development (HD) and a Master in Health Administration (MHA) in the Department of Policy Analysis and Management (PAM).

The dual HD BS/MHA program provides an excellent opportunity for motivated HD students seeking careers in health administration, enabling them to complete a bachelor's degree in HD and a Master of Health Administration in PAM in a total of 5 years of study versus the 6 years that would be required to complete these degrees separately. Further, the dual HD BS/MHA program has a rigorous multidisciplinary 150-credit curriculum in which students must complete an additional 30 credits of graduate study after completing 120 credits towards their undergraduate degree. This is consistent with a commitment to strong pedagogy in College of Human Ecology and the mission of the College to address contemporary societal problems through a multidisciplinary approach and to train graduates to pursue careers in a wide variety of fields that includes health and health care.

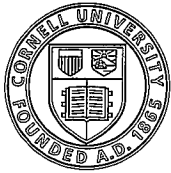
All resources required for the dual HD BS/MHA are already in place and no new commitments are required by HD, PAM or the College of Human Ecology, while there is demonstrated demand for the dual HD BS/ MHA and the placement record for graduates has been outstanding.

For all these reasons, I strongly support this program and the opportunity it offers to motivated HD undergraduates.

Sincerely,

A handwritten signature in cursive script that reads "Alan Mathios".

Alan Mathios  
Rebecca Q. and James C. Morgan Dean  
College of Human Ecology



Cornell University  
College of Human Ecology

Office of the Chairperson  
Department of Human Development  
G77 Martha Van Rensselaer Hall  
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April 8, 2013

Barbara Knuth  
Vice Provost and Dean of the Graduate School  
Day Hall, Room 501G  
Cornell University, Ithaca NY 14850

Dear Dean Knuth:

We are writing in support of the application for registration of the proposed dual 4 + 1 program combining a Bachelor of Science (BS) in Human Development (HD) in the Department of Human Development and a Masters Degree in Health Administration (MHA) in the Department of Policy Analysis and Management.

Human Development (HD) majors earn a Bachelor of Science degree through exploration of the psychological, social, cultural, and biological development of humans from conception to old age, focusing on the processes and mechanisms of growth and change over the life course. The HD BS program seeks to provide graduates with preparation to enter a wide range of careers, including medicine, health care, law, business, child and family advocacy, social work and education.

For those HD majors specifically interested in health management, the dual HD BS/MHA program provides an opportunity for motivated students to accelerate their careers by completing an HD bachelor's degree and a Master of Health Administration in PAM's Sloan Program in Health Administration in a total of 5 years of study versus the 6 years that would be required to complete these degrees separately. The dual degree maintains the integrity of both constituent programs. Students in the dual program complete a total of 120 credits towards their HD BS degree, including 30 credits of graduate work double counted towards their MHA degree, fully filling all of the requirements for a HD BS. They then enroll in the Graduate School and take an additional 30 credits of graduate courses in the MHA program, fully fulfilling the requirements for the MHA and completing a total of 150 credits in total.

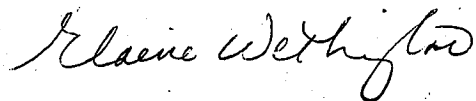
All required resources for the dual HD BS/MHA are already in place. No new commitments are required at the department or college level. Moreover, there is strong demand for the program and qualified applicants regularly exceed the number of available slots, while the placement rate for graduates of the program is excellent. The Graduate Studies Committee, Undergraduate Education Committee, and the Executive Committee of the Department of Human Development have reviewed and approved this proposal.

In conclusion, the dual HD BS/MHA program makes a valuable addition to the degree options available in the Department of Human Development. We strongly support approval of the registration application for this program.

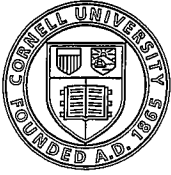
Sincerely,

A handwritten signature in cursive script that reads "C. Brainerd".

Charles Brainerd,  
Professor and Chair, Department of Human Development

A handwritten signature in cursive script that reads "Elaine Wethington".

Elaine Wethington  
Professor and Director of Graduate Studies, Department of Human Development



Cornell University  
College of Human Ecology

Policy Analysis and Management

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[www.human.cornell.edu/PAM](http://www.human.cornell.edu/PAM)

April 22, 2013

Barbara Knuth  
Vice Provost and Dean of the Graduate School  
Day Hall, Room 501G  
Cornell University, Ithaca NY 14850

Dear Dean Knuth,

As the chair of the home department for the Sloan Master in Health Administration (MHA) program in the Department of Policy Analysis and Management (PAM), I am writing in support of the application for registration of a dual 4 + 1 Bachelor of Science (BS) in Human Development (HD) /Master in Health Administration (MHA) program.

Offering a dual HD BS/MHA fits well with the mission and goals of the Department of Policy Analysis to prepare students for leadership as policy makers, analysts, and managers in both the public and private sectors, including health management.

The dual HD BS/MHA program provides an excellent opportunity for motivated HD students to pursue a career in health administration by allowing them to complete a HD bachelor's degree and a Master of Health Administration in PAM's Sloan Program in Health Administration in a total of 5 years of study versus the 6 years that would be required to complete these degrees separately. Further, the curriculum of the dual HD BS/MHA maintains the integrity of both the HD BS program and the MHA program. Students in the dual program complete 120 credits towards their HD BS degree, including 30 credits of graduate work double counted towards their MHA degree. They then enroll in the Graduate School and take an additional 30 credits of graduate courses to complete their MHA requirements for a total of 150 credits.

All required resources for the dual HD BS/MHA are already in place. No new commitments are required at the department or college level. Further, there is demonstrated demand for the program and the placement rate for graduates of the program is excellent.

In conclusion, I believe the dual HD BS/MHA program makes a valuable addition to the degree options available in Sloan MHA Program and strongly support approval of the registration application for this program.

Sincerely,

A handwritten signature in black ink, appearing to be "M. M. M.", written in a cursive style.



Rosemary J. Avery  
Weiss Presidential Fellow  
Professor and Chair  
Department of Policy Analysis and Management  
Cornell University

**Attach support letters from Department Chairs or Directors of Graduate Studies from closely related fields that may perceive some impact associated with the proposed academic program change.**

Not applicable

