

Routing for On-Campus Approval of Degree Program Actions

Type of Action: Enter "X" for Action Type(s) and list Title and Prefix(s) as indicated

<input checked="" type="checkbox"/> New Degree Program	Proposed Program Title <u>PhD in International Relations & Security</u>
<input type="checkbox"/> New Certificate Program	Proposed Certificate Program Title _____
<input type="checkbox"/> New Minor Program	Proposed Minor Program Title _____
<input type="checkbox"/> Change in Degree Program Title	Current Degree Program Title _____
<input type="checkbox"/> Change in Certificate Program Title	Current Certificate Program Title _____
	Proposed Certificate Program Title _____
<input type="checkbox"/> Change in Minor Program Title	Current Minor Program Title _____
	Proposed Minor Program Title _____
<input type="checkbox"/> Change in Course Prefix	Current Course Prefix _____ Proposed Course Prefix _____
<input type="checkbox"/> Program Discontinuation	
Proposed Effective Date <u>Fall 2017</u>	Program Contact: <u>Dr. Richard Mahoney, rdmahone@ncsu.edu</u>
Proposed CIP Code (see https://nces.ed.gov/ipeds/cipcode/default.aspx?y=55):	<u>45.0999</u>

Routing of Action: Indicate date when the following occurs

Completed Request to Plan and 1-page Concept Paper

2/20/16 Council of Dean's- Approval to Plan

Completed Proposal

3/22/16 Department Head endorses*

3/23/16 College Curriculum Committee (undergraduate or graduate) recommends*

3/23/16 College Dean endorses*

Proposal moves to Undergraduate or Graduate office for routing

N/A Recommended by Vice Provost, DELTA, if applies*

4/18/16 Substantive Change Review Team (SCRT) informed

_____ If SACS notification is required, SCRT prepares letter for Chancellor to send to SACS

4/14/2016 University Courses & Curriculum Committee or Administrative Board of the Graduate School recommends

4/6/16 Associate Deans Council or Graduate Operations Council informed

4/15/16 Dean (Graduate School or DASA) approves*

Proposal move to the Provost's office for routing

_____ Vice-Provosts informed

_____ Deans' Council recommends*

_____ Provost approves*

_____ Chancellor's Executive Officer's (EOM) recommend

_____ University Council informed

_____ Board of Trustees subcommittees recommend

_____ Chancellor approves*

_____ Accreditation Liaison notifies SACS, if applicable

_____ Submitted to UNC-General Administration by Provost's Office

* Signature is required on the signature page for the action

Request to Plan, PhD in International Relations & Security

North Carolina State University

This request has been reviewed and approved by the appropriate campus committees and authorities.

Endorsed By:

Richard Mahoney RJM
Head, Department/Director of Graduate Program (Printed Name and Signature) Date

Recommended By:

J Scott Despain J Scott Despain 3/28/16
Chair, College Graduate Studies Committee (Printed Name and Signature) Date

Endorsed By:

Deanna Dannels Deanna Dannels 3/23/16
College Dean (Printed Name and Signature) Date

Recommended By:

Vice Provost, DELTA (if DE degree) (Printed Name and Signature) Date

Approved By:

[Signature] Maureen Grasso 4/15/16
Dean of the Graduate School (Printed Name and Signature) Date

Recommended By:

Dean's Council (Printed Name and Signature) Date

Approved By:

Provost (Printed Name and Signature) Date

Approved By:

Chancellor (Printed Name and Signature) Date

UNIVERSITY OF NORTH CAROLINA

REQUEST TO PLAN

A NEW DEGREE PROGRAM – ANY DELIVERY METHOD

THE PURPOSE OF ACADEMIC PROGRAM PLANNING: Planning a new academic degree program provides an opportunity for an institution to make the case for need and demand and for its ability to offer a quality program. The notification and planning activity described below do not guarantee that authorization to establish will be granted.

Date: March 15, 2016 revised 4.24.16

Constituent Institution: North Carolina State University

Is the proposed program a joint degree program? Yes ___ No X ___

Joint Partner campus _____

Title of Authorized Program: International Relations & Security Degree Abbreviation:
Ph.D.

CIP Code (6-digit): 45.0999 Level: B ___ M ___ I ___ D X ___

CIP Code Title: International Relations and National Security Studies, Other

Does the program require one or more UNC Teacher Licensure Specialty Area Code? Yes ___ No X ___

If yes, list suggested UNC Specialty Area Code(s) here _____

If master's, is it a terminal master's (i.e. not solely awarded en route to Ph.D.)? Yes ___ No ___

Proposed term to enroll first students in degree program: Term Fall Year 2017

Provide a brief statement from the university SACSCOC liaison regarding whether the new program is or is not a substantive change.

This proposal was reviewed on 4/18/2016 by the Substantive Change Review Team and it was determined that this is not a substantive change.

Identify the objective of this request (select one or more of the following)

- Launch new program on campus
- Launch new program online; Maximum percent offered online _____
 - Program will be listed in UNC Online
 - One or more online courses in the program will be listed in UNC Online
- Launch new site-based program (list new sites below; add lines as needed)
 - Instructor present (off-campus delivery)
 - Instructor remote (site-based distance education)

Site #1

(address, city, county, state)

(max. percent offered at site)

Site #2

(address, city, county, state)

(max. percent offered at site)

Site #3

(address, city, county, state)

(max. percent offered at site)

Supply basic program information for UNC Academic Program Inventory (API) and UNC Online:

45.0999 404 000 A PhD International Relations & Security

Minimum credit hours required 72

Expected number of full-time terms to completion 6-8

1. Review Status.

a. List the campus bodies that reviewed and commented on this request to Plan proposal before submission to UNC General Administration. What were their determinations? Include any votes, if applicable.

The following campus bodies unanimously approved the proposal:

NC State Council of Deans

Humanities and Social Sciences Directors of Graduate Programs (DGP) Committee (17 members representing all departments and programs of the college)

Administrative Board of the Graduate School (13 members representing all colleges, the Graduate School and DELTA distance education)

Seven departments and centers in four NCSU colleges –CNR, CALS, Sciences, and Engineering – have strongly endorsed this proposal, most indicating their interest in partnering with the international security program

Consultations with various bodies on campus have been supportive and include letters of support from the following faculty leaders:

- **Dr. Ross K. Meentemeyer, Director, Center for Geospatial Analytics**
- **Dr. Mohamed Bourham, Department of Nuclear Engineering, Director, College of Engineering Master of Engineering Graduate Program**
- **Dr. Alyson Wilson, Department of Statistics, Principal Investigator, Laboratory for Analytic Sciences (LAS)**
- **Dr. Jennifer Kuzma, Co-director, Genetic Engineering and Society Cluster**

- **Dr. Francis de los Reyes, Civil, Construction, and Environmental Engineering, Coordinator, Global Water, Sanction, and Hygiene Faculty Cluster**
- **Dr. Danesha Seth Carley, Director for the Southern Integrated Pest Management Center**
- **Dr. Walter A. Robinson, Head, Department of Marine, Earth and Atmospheric Sciences**
- **Dr. Kathleen M. Vogel, Director, Science, Technology, and Society Program, Humanities and Social Sciences**
- **Dr. Fredrick Semazzi, Director, Master's Degree Program in Climate Change and Society, Department of Marine, Earth & Atmospheric Sciences**

We have also received letters of support from the following affiliates:

- **Kimrey W. Rhinehardt, Vice President for Federal Relations, The University of North Carolina General Administration**
- **Dr. Judith Johnson, Research Scholar, Laboratory for Analytic Sciences (NSA) at NC State University**
- **Dr. Rob Johnson, Former Deputy Chief, Globalization and Modernization, Central Intelligence Agency**
- **Jim Hodge, Major General (ret.), President, Institute for Defense and Business**
- **Pat Dowden, Defense Intelligence Agency, Program Manager, IC Centers for Academic Excellence**

b. Summarize any issues, concerns or opposition raised throughout the campus process and comment periods. Describe revisions made to address areas of concern.

The two areas of debate have focused on potential students and likely placement. We have consulted with knowledgeable experts in this area and have been assured that there is sufficient demand and potential placement in both the private and public sectors. Statistics from peer institutions are included below under #3, Student demand. Information about placement is included under #4, Societal demand.

2. Description and Purpose

- a. Provide a 250-word or less description of the proposed program, including target audience, delivery method, hours required, program core and concentrations (if applicable), post-graduate outcomes for which graduates will be prepared, and other special features. For programs with an online component, describe whether the delivery is synchronous with an on-campus course, partially synchronous, asynchronous, or other.

The Ph.D. in International Relations and Security will award a research-intensive advanced degree that is problem focused and policy relevant to address the diverse next generation security challenges. The concept of "security"- once largely the domain of defense, national security and law enforcement- now merges a wide range of fields and disciplines (food security, cyber-security, water security, climate security, WMD security, and human and rule of law security). This degree will build upon these fields for a comprehensive view.

The hallmarks of the International Relations and Security Ph.D. include:

- In-depth area studies with a focus on history, culture, language and politics
- Mastery of research-intensive analytics and required production and presentation of original research at academic conferences by doctoral candidates
- Quantitative and qualitative methodologies to include large scale data modeling, risk analysis, research design and framing, and geospatial and structured analytics
- Mastery of interdisciplinary tracks in cyber security, water and climate security, food and energy security, WMD security, and rule of law/governance security
- Bridging the gap between the academy and the U.S. national security complex as well as international organizations, NGOs, and multinational companies

The 72 hour degree program will draw applicants with completed Master's degrees in a wide range of fields with 18 (from other institutions) to 36 credit hours (from NC State) given toward the Ph.D. Graduates will be prepared for both professional and academic positions in the international security arena. The Ph.D. will use an accelerated delivery and degree completion format and will explore off-site DELTA delivery in the future.

- b. How does the proposed program align with system, institutional and unit missions and strategic plans?

This degree furthers the institutional mission of NC State by engaging in policy-oriented, problem-solving, and science and technology-based learning for the future.

The Ph.D. complements existing programs and advances the strategic goals of NC State by:

Fulfilling NC State's strategic area of emphasis in "safety and security" and our strategic goals to "enhance interdisciplinary scholarship to address the grand challenges of society," and to "enhance local and global engagement through focused strategic partnerships;"

Advancing the broader UNC system directives (Goal 3: "serving the people of NC") and (Goal 4: maximizing efficiencies) while strengthening the system-wide NC Partnership for National Security

Building broad interdisciplinary graduate education and research capacity, using the Master of International Studies in the School of Public and International Affairs (SPIA) and current programs, faculty, curriculum across the NC State campus and the UNC system to allow flexible construction of security concentrations;

Addressing the need in the national security sector for deeper, applied mastery of complex security issues; and,

Providing an economically sustainable graduate program by building on major grants (e.g., Center for Nuclear Nonproliferation), increased graduate enrollments, and reallocation of resources from undergraduate to doctoral education.

- c. What student-level educational objectives will be met by the proposed program?

Educational Objectives

- **Establish a rigorous interdisciplinary graduate education for policy professionals in international security**
- **Provide instruction for students in the necessary methodological skills (quantitative, qualitative, GIS analysis) and regional expertise critical to navigating the complexities of global threats and security challenges in the 21st century;**
- **Instruct students in interdisciplinary research production combining disciplines from political science and international relations with those of STEM fields**
- **Develop skills-based professional education for security experts in policy, business, defense and government**

3. Student Demand. Provide documentation of student demand. Discuss the extent to which students will be drawn from a pool of students not previously served by the institution.

Enrollment data from on-campus programs:

Select relevant Master's degrees at NC State and enrollment data:

International Studies – 54 students (current enrollment Fall 2015)
Geospatial Information Systems – 20 students (degrees conferred 2014-15)
Marine, Earth, Atmospheric Sciences – 13 students (degrees conferred 2014-15)
Food Science – 24 students (degrees conferred 2014-15)

Enrollment data from similar programs in UNC, the state, or country.

Relevant Master's programs in UNC system:

ECU Master of International Studies (58 students)
UNC-Wilmington MA in Conflict Management and Resolution (n/a)
UNC-Chapel Hill MA in Global Studies (25 students)

Relevant Undergraduate programs in UNC system:

UNC-Chapel Hill Peace, War and Defense (350-400 students)

Relevant NC programs:

Duke University-Chapel Hill Rotary Peace Center (22 students)
Duke University MA in International Development Policy (75 students)

Relevant Programs in the U.S.:

Defense Intelligence Agency's Intelligence Community Centers of Academic Excellence - ICCAE (of which NC State's SPIA is a partner) operates in 39 universities and colleges across the country. This large cohort of several thousand students in military and

intelligence studies represents a underserved community that will be a potential feeder for the Ph.D. degree.

Demonstrated demand from related degrees at comparable institutions/programs:

The University of Washington Ph.D. in International Studies

The Jackson School implemented a new professional Ph.D. in International Studies in 2013, that includes a peace, violence, and security focus. According to Saadia Pekannen, founding Director, (1/7/2016), their applicant pool has drawn from the military, mid-career professionals and international students. Demand as demonstrated by applications has doubled since the program started. Here is an overview of their applications, acceptance and enrollment to date.

2013-2014: 70 apps	Accepted 15/8 enrolled
2014-2015: 120 apps	Accept 15/10 enrolled
2015-2016: 140 apps	TBD

The University of Central Florida, Ph.D. in International Security

The University of Central Florida conducted surveys of both undergraduates in political science and master's students prior to the launch of their Ph.D. in International Security in 2013 and found that 85 percent of students enrolled in topical undergraduate programs demonstrated interest in applying for the program. A focus group with graduate students in their Masters of Political Science also showed high interest. (Board of Governors, State University System of Florida, New Doctoral Degree proposal staff analysis)

Kansas State University, Ph.D. in Security Studies

Kansas State University's program is 8 years old and has approximately 50 applications for 4 to 5 positions annually.

4. Societal demand. Provide evidence of societal demand and employability of graduates from each of the following source types.

The creation of the Ph.D. in International Relations and Security aligns with areas of current and projected job growth in North Carolina. The North Carolina Department of Labor projected job growth in the area of "professional, scientific and technical services" is 2.6% for 2012-2022. Statistics from the NC Department of Labor also show approximately 16% job growth for "social scientists and related workers."

Graduates of this program will be competitive for businesses that provide research and technical services for governments and businesses throughout the world. Companies such as RTI-International that contract with businesses, the US government and governments in different countries are illustrative of these trends.

As international trade becomes an increasingly important dimension of the state of North Carolina's economic growth profile, businesses with operations outside of the US will need graduates with technical expertise to confront and navigate the diversity of security challenges specific to different countries (See 2014 NC Trade Report)

Placement Opportunities:

- **Active duty military (intelligence, FAOs, leadership)**
- **Diplomatic Careers and Foreign Affairs analysis (Govt.)**
- **Defense, Homeland Security and Private Contractors**
- **Corporate Security analysis and management**
- **Think Tanks, Foundations and Lobbying Organizations**
- **International NGO Senior Management**
- **Academic Placement in International Relations/Security Studies**

- a. Labor market information (projections, job posting analyses, and wages)
 - i. specific to North Carolina (such as ncworks.gov, nctower.com, outside vendors such as Burning Glass)

Given the newness of this program, there is no applicable data.

- ii. available from national occupational and industry projections (such as BLS).

Employment opportunities for graduates of this degree program can be identified in the following areas as listed in Bureau of Labor Statistics:

**International Relations professor
Political Research Scientist
Political Research**

Estimates from the Bureau of Labor on these jobs titles are all positive for the 2012-2020 period with particular growth (4%) in academic employment in the academic private and professional sector, for which graduates will be well prepared. Similarly, political research skills developed in the program can lead to positions in both the governmental and private sector. One of the greatest areas of growth for the 2012-2022 period (3.5% of profession) is in "Management, scientific, and technical consulting services." The technical expertise of NC State can be an important contribution to the training of the graduates in this area.

The wage scale for these positions, based on job postings, vary from \$70,000 to \$140,000.

Specific job listings and salary ranges:

Department of the Air Force:

Professor of Strategy and Security Studies, Dept. of the Air Force, \$70,000-\$140,000
Research Professor of National Security, Dept. of the Air Force, \$90,000 - \$140,000

Central Intelligence Agency:

Counterintelligence Threat Analyst, CIA, \$50,864 – \$99, 296*
Counterterrorism Analyst, CIA*
Political Analyst, CIA*
Science, Technology, and Weapons Analyst, CIA, \$69,117-\$101,984*

***Higher starting salary possible depending on experience level. CIA consultations indicate a preference for individuals with doctorate degrees.**

Department of Homeland Security:

Intelligence Research Specialist, \$64,650.00 - \$100,736.00. Under the National Protection and Programs Directorate, this position is located in the Office of Cybersecurity & Infrastructure Analysis (OCIA).

- b. Projections from professional associations or industry reports

Several articles and discussion forums have addressed the need for more policy relevant Ph.D.'s in the international security area.

The War on Rocks website provides a “platform for analysis, commentary, debate and multimedia content on foreign policy and national security issues through a realist lens.” It features the Schoolhouse discussion space where the following articles have appeared by noted scholars on the need for more policy relevant Ph.D. approaches.

Francis J. Gavin, “Breaking Discipline and Closing Gaps? – The State of International Relations Education,” <http://warontherocks.com/author/francis-j-gavin/>

James Goldgeier and Bruce Jentleson, “How to Bridge the Gap between Policy and Scholarship,” <http://waronrocks.com/author/goldgeier>

Other articles on this issue include the following:

Paul C. Avey and Michael C. Desch, “What Do Policymakers Want from US? Results of a Survey of Current and Former Senior National Security Decision-makers.” *International Studies Quarterly*, 58/4 (December 2014).

- c. Other (alumni surveys, insights from existing programs, etc.)

Focus groups were conducted to assess potential recruitment and placement:

8/4/15: Academic directors of the North Carolina Institute for Defense and Business (IDB), Major General Jim Hodge, President: Formally endorsed the proposal as serving

a compelling national and international need in educating leaders in interdisciplinary mastery of complex security issues. IDB is an NC-based think-tank which offers an MBA in military logistics and executive certificates in a wide-range of security fields.

12/17/15: Ambassador Karl Eikenberry, General Dan Bolger, and Former Vice President of Government Relations for the University of North Carolina, Anita Watkins indicated overall support for the Ph.D. and identified instructors in the military service colleges as sources for recruitment and placement. They also identified a mid-level career civilian population who are responsible for addressing security issues within the military and throughout a number of governmental agencies (e.g., Departments of State, Commerce, Treasury, and Agriculture).

5. Unnecessary duplication.

a. List all other public and private four-year institutions of higher education in North Carolina currently operating programs similar to the proposed new degree program, including their mode of delivery. Show a four-year history of enrollments and degrees awarded in similar programs offered at other UNC institutions (using the format below for each institution with a similar program); describe what was learned in consultation with each program regarding their experience with student demand and job placement. Indicate how their experiences influenced your enrollment projections

There are none at this time.

Institution: _____

Program Title:

	(year)	(year)	(year)	(year)
Enrollment				
Degrees-awarded				

b. Identify opportunities for collaboration with institutions offering related degrees and discuss what steps have been or will be taken to actively pursue those opportunities where appropriate and advantageous.

Consultations with directors of the following programs have already occurred.

**Master of Global Studies at UNC-Chapel Hill
Master of Conflict Management and Resolution at UNC-Wilmington
Master of Arts in International Studies at East Carolina University
BA in Peace, War and Defense at UNC-Chapel Hill**

Regional expertise at other institutions in the system:

Area studies centers at UNC-Chapel Hill:

**African Studies Center
Carolina Asia Center
Center for European Studies
Center for Slavic, Eurasian, and East European Studies
Center for the Study of the Middle East and Muslim Civilizations
Institute for the Study of the Americas**

c. Present documentation that the establishment of this program would not create unnecessary program duplication. In cases where other UNC institutions provide similar online, site-based distance education, or off-campus programs, directly address how the proposed program meets unmet need.

This program would provide the first and only Ph.D. in International Relations and Security in North Carolina.

6. Enrollment. Estimate the total number of students that would be enrolled in the program during the first year of operation and in each delivery mode (campus, online, site – add lines as needed):

Delivery Mode ___ *Full-Time* ___ **5** ___, *Part-Time* ___ **2** ___

Estimate the total number of students that would be enrolled in the program during the fourth year of operation and in each delivery mode (campus, online, site – add lines as needed):

Delivery Mode ___ *Full-Time* ___ **20** ___, *Part-Time* ___ **2** ___

7. Resources. Will any of the resources listed below be required to deliver this program? (If yes, please briefly explain in the space below each item, state the estimated new dollars required at steady state after four years, and state the source of the new funding and resources required.)

a. New Faculty: Yes ___ No X ___

SPIA currently has regional expertise in Latin America and the Caribbean, Europe, Russia, Middle East, South Asia, and has added a new faculty member in East Asia in Fall 2016.

b. Faculty Program Coordination: Yes ___ No X ___

c. Additional Library Resources: Yes ___ No X ___

d. Additional Facilities and Equipment: Yes ___ No X ___

e. Additional Other Program Support: Yes _____ No X____
(for example, additional administrative staff, new Master's program graduate student assistantships, etc.)

8. Curriculum leverage. Will the proposed program require development of any new courses? If yes, briefly explain.

Curriculum development is currently occurring under existing grants.

9. Funding Sources. Does the program require enrollment growth funding in order to be implemented and sustained? If so, can the campus implement and sustain the program should enrollment growth funding be unavailable? Letters of commitment should be provided.

The proposed program does not require enrollment growth funding. Funds will be reallocated from existing Provost, College and School sources.

- 9a. For graduate programs only:

Does the program require a tuition differential or program specific fee in order to be implemented and sustained?

The proposed program will not require a tuition differential or specific fee.

- i. If yes, state the amount of tuition differential or fee being considered, and give a brief justification.
- ii. Can the campus implement and sustain the program if the tuition differential or program fee is not approved? Letters of commitment from the Chancellor and/or Chief Academic Officer should be provided.
Yes, see attached letter.

10. For doctoral programs only:

- a. Describe the research and scholarly infrastructure in place (including faculty) to support the proposed program.

The Political Science Department has 15 tenure/tenure-track faculty (adding an East Asia specialist in 2016) in international studies and global and domestic security covering a broad range of International Relations fields and area concentrations. The Master of International Studies provides a broad inter-and-intra- college interdisciplinary foundation with faculty from ten different departments and four colleges upon which the Ph.D. program can draw for support. The Graduate Certificate in Policy and Technology of Nuclear Nonproliferation will become an important support for the Ph.D. Additionally, the program would build on existing grants and partnerships with the Triangle Institute for Security Studies (TISS), the Defense Intelligence Agency (DIA), and the National Security Agency (NSA) as well as draw upon practical and professional expertise in businesses and non-profits such as RTI-International.

This inter-disciplinary Ph.D. will provide students entering the program from different fields of study and different professional experiences with a common academic foundation in the scholarly and research realm of International Relations, which is consistent with Political Science programs that offer an International Security subfield. The core curriculum will be the foundation for both theory-grounded and policy-relevant analyses. Seminars for entering students will include: concepts and theories in International Relations; theoretical approaches and research design, data capture and execution in International Security; emerging models and methods of analysis of U.S. national security.

Further, the Ph.D. will capitalize on NC State strengths in the STEM disciplines as well as the social and behavioral sciences to develop specializations or curricular tracks that mirror the complexities and diversity of security challenges in the 21st century. Content experts in issues (e.g. food, climate) are available throughout the campus and are ready to cooperate in this inter-disciplinary program. Specializations will draw upon experts in other colleges such as cyber-security (College of Engineering), climate (College of Science), water (College of Natural Resources), human and transnational legal issues (Humanities & Social Sciences), geospatial analytics (Center for Geospatial Analytics) weapons of mass destruction (College of Engineering), and biowarfare and bioagent non-proliferation (Genetic Engineering and Society cluster). For example, dissertation topics suggested by interested faculty that can bridge these fields include regulatory complications and challenges in gene editing as a “weapon of mass destruction” or understanding intelligence failures in nuclear trafficking networks using both open source and declassified information.

The Ph.D. in International Relations and Security is a research-intensive program that requires doctoral students to produce original, policy-applicable, problem-solving research in the area of global security. During their first and/or second year, students will enroll in faculty-led research workshops in which a faculty researcher works closely and collaboratively with 2-3 doctoral students on research papers that will be presented at academic conferences and professional meetings. It is expected that every doctoral candidate will present at least one paper at a leading conference

A Master’s degree in a relevant field is required for admission. For those who specialize in area studies, reading fluency in the applicable foreign language will be required. Alternatively, students may choose mastery of a quantitative or qualitative research modality such as Stata, panel data, geospatial or structured analytics, survey research, data fusion, and meta-data capture and analysis.

b. Describe the method of financing the proposed new program (including extramural research funding and other sources) and indicate the extent to which additional state funding may be required.

As a degree oriented to professional students, a significant percentage of the students will likely be self-funded or funded from grants, industry, foundations and government sources.

c. State the number, amount, and source of proposed graduate student stipends and related tuition benefits that will be required to initiate the program.

In the program's first year, we anticipate that 2 students of a total of 5 full-time students will require graduate student support plans.

11. Contact. List the names, titles, e-mail addresses and telephone numbers of the person(s) responsible for planning the proposed program.

Dr. Richard Mahoney, rdmahone@ncsu.edu, 919-515-5069

Dr. Heidi Hobbs, hhobbs@ncsu.edu, 919-513-4389

Dr. Traci Reid, tvreid@ncsu.edu, 919-515-5109

This request for authorization to plan a new program has been reviewed and approved by the appropriate campus committees and authorities.

Chancellor: _____ Date: _____

Chancellor (Joint Partner Campus): _____ Date: _____