UNIVERSITY OF WASHINGTON

OFFICE OF THE PRESIDENT

June 17, 2010

Vice Chancellor Beth Rushing
University of Washington, Tacoma
Box 358430

Dear Beth:

Based upon the recommendations of the Faculty Council on Academic Policy, the Faculty Council on Tri-Campus Policy has recommended approval of a Bachelor of Arts degree in Sustainable Urban Development. A copy of the proposal is attached.

I am writing to inform you that the Urban Studies program is authorized to offer this major beginning autumn quarter 2010 and thereafter.

The new requirements should be incorporated in printed statements and in individual department websites as soon as possible. The *General Catalog* website will be updated accordingly by the Registrar's Office.

Sincerely yours,

Mark A. Emmert
President

Enclosure

cc: Ms. Marcie Pierson (with enclosure)
Mr. Robert Corbett (with enclosure)
Dr. Deborah H. Wiegand (with enclosure)
Mr. Todd Mildon, J.D. (with enclosure TURB-20080624)

301 Gerberding Hall • Box 351230 • Seattle, Washington 98195-1230 • 206-543-5010 • FAX: 206-616-1784

AUG 2 2 2008

UNIVERSITY OF WASHINGTON

CREATING AND CHANGING UNDERGRADUATE ACADEMIC PROGRAMS

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After college/school review, send a signed original and 8 copies to FCAS, Box 355850.

For information about when and how to use this form: http://depts.washington.edu/uwcr/1503instructions.pdf

College	Department or Unit	Date
University of Washington Tacoma	Urban Studies	6/24/08

New Programs

- ☐ Leading to a Bachelor of _____ in _____ degree.
- ☑ Leading to a Bachelor of Arts degree with a major in Sustainable Urban Development.
- ☐ Leading to a _____ Option within the existing major in _____.
- ☐ Leading to a minor in _____.

Changes to Existing Programs

- ☐ New Admission Requirements for the Major in _____ within the Bachelor of _____.
- ☐ Revised Admission Requirements for the Major in _____ within the Bachelor of _____.
- ☐ Revised Program Requirements for the Major in _____ within the Bachelor of _____.
- ☐ Revised Requirements for the Option in _____ within the major in _____.
- ☐ Revised Requirements for the Minor in _____.

Other Changes

- ☐ Change name of program from _____ to _____.
- ☐ New or Revised Continuation Policy for _____.
- ☐ Eliminate program in _____.

Proposed Effective Date:

Quarter: ☑ Autumn ☐ Winter ☐ Spring ☐ Summer **Year:** 20~~09~~10

Contact Person	Contact's Phone	Contact's Email
Brian Coffey	253 – 692 – 5882	bcoffey@u.washington.edu

EXPLANATION OF AND RATIONALE FOR PROPOSED CHANGE

For new programs, please include any relevant supporting documentation such as student learning outcomes, projected enrollments, letters of support and departmental handouts. *(Use additional pages if necessary).*

See attached proposal

CATALOG COPY

Catalogue Copy as currently written. Include only sections/paragraphs that would be changed if you request is approved. Please cross out or otherwise highlight any deletions.

PROPOSED CATALOG COPY

Reflecting requested changes (Include exact wording as you wish it to be shown in the printed catalog. Please underline or otherwise highlight any additions. If needed, attach a separate, expanded version of the changes that might appear in department publications)

See attached

SIGNATURES (required)

Chair/Program Director R C Gatty	Date June 24, 08
Dean Beth Rushing	Date 7/1/08
College Committee Michael C Kalton	Date 7/11/08
Faculty ~~Council on Academic Standards~~ Assembly Chair: Post-Tri Campus approval George Mobus	Date 11/13/08

UoW 1503 (12/05) REVERSE

RESET FORM

Catalog copy

Bachelor of Arts in Sustainable Urban Development

Overview

The Sustainable Urban Development program focuses on important issues and challenges facing metropolitan areas in the twenty-first century. Coursework includes sustainable development policies and practices within the context of urban growth and development. Contemporary metropolitan problems, issues, and themes such as sprawl, environmental protection, transportation policy, smart growth, social equity, and new urbanism are examined from policy and planning perspectives. The major builds on skills generated by discipline-based study, but also makes it possible to address linkages between people in the social, natural, and built environments. Students work on real-world challenges using various approaches focused on the interaction of environmental, economic and social systems. Based in the Urban Studies program at UWT, but drawing on the resources of the campus as a whole, the degree is suitable for students inclined toward social science, environmental studies, public affairs, and urban planning. Graduates will be able to move on to graduate-degree programs or gain employment in areas such as local, state and federal government as well as private consultancies and community advocacy organizations.

Educational Emphasis

The goals of the major are:

- To provide students with a broad but concrete understanding of the various linkages between urban ecosystems, urban systems (planning, transit, energy, etc.) and the multi-dimensional problems of urbanization, especially as these relate to public policy and urban advocacy;
- To equip students with knowledge and skills necessary to pursue careers related to the multifaceted and interconnected nature of sustainability problems and the dynamics of urban development;
- To serve as a resource, through service and research, to communities in the South Sound region.

The objectives of the major are:

- To provide students with a holistic view of urban sustainability and an understanding of the practical application of their classroom experience;
- To instill an awareness of the interconnectedness of the environment, economics and social equity, and their importance in creating sustainable urban centers;

- To create an interdisciplinary curriculum that provides students with an understanding of all facets of sustainability in an urban setting and allows them to solve complex problems in a variety of settings;
- To equip students with practical experience, deep theoretical background, the ability to solve complex problems, and comprehension of the newest technologies.

Upon completion of the major, student will be able:

- To approach urban sustainability with a multi-disciplinary background;
- To apply innovative approaches to complex problems involving a variety of issues;
- To compare and contrast the impacts of urban development on all parts of the urban setting and sustainability;
- To demonstrate effectiveness in written and oral communications skills, critical thinking, and application of theory;
- To demonstrate appreciation for all aspects of sustainability issues, regardless of specialty, and the complex solutions required for success in the field.

Admission Requirements

The program will admit a maximum of 30 students each year. Normally applicants will be considered for admission only for autumn quarter. A minimum gpa of 2.5 and a minimum of 40 college credits are required.

Curriculum

The curriculum of the Sustainable Urban Development program consists of a set of required core courses and electives that students can choose with their adviser. Through the core courses and electives students will be able to tailor their studies to emphasize specific aspects of sustainable urban development. Classes will be drawn from different disciplines, including Urban Studies, Environmental Science, and Interdisciplinary Arts and Sciences. With the counsel of their program advisor, students may choose to focus on planning, policy, or environmental science themes. Alternatively, students may choose a combination of courses from some or all of these areas.

Required credits: 39 credits of Core
5 credits of internship/seminar/case studies
20 credits of planning/policy/environmental electives

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64 credits

Core courses: **[39 credits]**

- TURB xxx Introduction to Sustainability 3 credits
- TURB 231 Introduction to Urban Planning 5 credits
- TURB xxx Sustainable Urban Development Policies 5 credits
- TURB xxx Urban Systems and Sustainability 5 credits
- TURB xxx Urban Ecology 5 credits
- TURB xxx Sustainable Community Planning and Design 5 credits
- TURB 440 The City and Nature 5 credits
- TGIS 311 Maps and GIS 6 credits

Student must also select 20 credits from the areas below in consultation with an advisor:

I. Planning Practices and Techniques

- TURB 335 Community Development 5 credits
- TURB 321 History of Planning Theory and Practice 5 credits
- TURB 350 Introduction to Urban Research 5 credits
- TURB 479 Plng. and Dev. in the Puget Sound Region 3 credits

II. Policy

- TEST 333 Environmental Policy Applications 5 credits
- TESC 345 Pollution and Public Policy 5 credits
- TURB 410 Environmental Equity 5 credits
- TURB 415 Urban Government 5 credits
- TSMUS 421 Environmental Policy 5 credits
- TCSIUS 438 Environmental Law 5 credits
- THLTH 472 Human Health and the Environment 5 credits

III. Environmental Science

- TESC 239 Energy and the environment 5 credits
- TESC 321 Soils and environmental applications 5 credits
- TESC 343 The atmosphere and air pollution 6 credits
- TESC 362 Introduction to Restoration Ecology 7 credits
- TESC 431 Water Resources and Pollution 7 credits

Select one of the following culminating experiences

- TURB xxx Community Sustainability Internship 5 credits
- TURB xxx Capstone Seminar 5 credits
- TURB xxx Case Studies in Sustainable Urban Development 5 credits

NEW PROGRAM PROPOSAL

Institution:	University of Washington, Tacoma
Degree-granting unit:	University of Washington, Tacoma Urban Studies
Degree (level):	Undergraduate, Bachelor
Of (Type):	of Arts
In (Major):	Sustainable Urban Development
Mode of Delivery:	**__X_ single campus/traditional classroom ___ video**
	classroom___videotape___internet/web___oth er
	(check all that apply)

Proposed starting date: September, 2009

Academic Department Representative

(Name):	Dr Brian Coffey
Title:	Professor and Director
Address:	University of Washington, Tacoma 1900 Commerce Street Box 358430 Tacoma, WA 98402-3100
Telephone:	(243) 692-5882
E-mail:	bcoffey@u.washington.edu

Endorsement by
Chief Academic Office:

Date: May 25, 2008

PROGRAM PROPOSAL

Bachelor of Arts in Sustainable Urban Development
University of Washington, Tacoma

Summary: Drawing on extant resources in Urban Studies, Environmental Science, Interdisciplinary Arts and Sciences, and other programs, this proposal outlines a new Bachelor of Arts degree — Sustainable Urban Development — to be housed in the Urban Studies program at UW-Tacoma. The proposal seeks to provide students in the South Sound region with a critical and rigorous training designed to help them understand and manage the ecological and social aspects of urban development processes. The degree, possibly the first such academic program in the USA and one of the first in the world, will prepare students for careers in planning agencies, corporations adhering to sustainability practices, consulting firms, not-for-profit organization, and environmental/resource related agencies at the local, state, and federal levels of government.

I. PROGRAM NEED

A. Relationship to Institutional Role and Mission

The University of Washington, Tacoma (UWT) is transitioning from a branch of the University of Washington to a fully-developed metropolitan research university within the University of Washington's three-campus system. UWT has long offered high quality teaching and research with a tradition of public service and community involvement. The mission of UWT now includes providing expanded access to undergraduate and graduate education in the south Puget Sound region. This includes a major commitment to innovative approaches to teaching and learning, with an emphasis on student competencies in critical thinking, oral and written communication, working with diverse populations, substantive knowledge of society/environment relations, and tracing the real-world consequences of academic scholarship and debate.

UWT takes an interdisciplinary approach to this mission and, hence, encourages collaboration and cooperation between programs and academic units within the University, including between campuses. The proposed degree in Sustainable Urban Development strengthens the overall mission of UWT as a metropolitan research university as well as the interdisciplinary approach to higher education and is designed to meet UWT's responsibility to provide society with well-trained students whose knowledge and skills inform societal goals and that guide urban change towards more sustainable socio-natural environments.

Based in the Urban Studies Program, the proposed major will also draw on courses and faculty expertise in the Interdisciplinary Arts and Sciences Program, especially from the Environmental Sciences. In addition, the proposed major will also potentially draw on courses in Business, Social Welfare, and Nursing.

Many US colleges and universities have now recognized the importance of offering students options for studying aspects of sustainability. Courses are available to students that address the technical, political, and social issues related to sustainable approaches to development. However, fewer institutions currently offers programs with degrees in "Sustainable Development", although students at institutions around the world are offered the option of selecting sustainability as a "concentration." Moreover, very few institutions in the United States -- if any -- have yet offered an undergraduate major in sustainable urban development. In this sense, UWT would truly pioneer in an area of growing national and indeed international policy importance.

Appendix 1 provides a list of some institutions offering degrees or concentrations (Minor) in sustainability. Included are text excerpts and URL links describing the focus of the program of study offered to students.

Appendix 2 provides a list of community members potentially interested in and impacted by the proposed major.

Appendix 3 provides a list of Washington State initiatives and policies that give particular credence to the logic and overall societal demand for sustainability values and skills-sets.

B. Justification and Documentation of Need and Demand

Several factors provide justification for the proposed major. The most important factors include: (1) recent policy developments at both the state and local levels that call for a significant 'greening' of urban development in the region and thus a new demand for graduates that can play a fundamental role in shaping and directing sustainable urban forms in the south Puget Sound region; (2) UWT's overall growth trajectory and urgent need for innovative new programs and majors; and (3) unmet student demand.

Overall policy context

Urbanization and metropolitanization of national populations are two of the most pervasive social forces now impacting the earth's ecosystems, with effects that go well beyond local transformations of the economic and social landscape.

Sustainable Urban Development, then, has a decidedly global focus. Much has been written about the need to develop strategies and solutions for assisting emerging nations and economies in their efforts to manage growth in sustainable ways. Clearly, population trends are moving toward exponential urban growth. "A century ago, 10% of the world's population lived in cities. That figure is now 50%. By 2050 it will be 75%."[1] It has been reported that "this demographic shift is mostly taking place in Africa and Asia, largely in low-income settlements in developing countries - much of it in the 22 'megacities' whose populations will exceed 10 million and in some cases grow to more than 20 million by 2015."[2] We can expect 59 African cities with populations between 1 million and 5 million, 65 such cities in Latin America, and 253 in Asia.

Within this overall global context, national, regional and local decision-makers are increasingly tasked with finding solutions that might mitigate the increasing challenges caused by population pressures in urban areas and the political and economic climate for addressing these challenges. Urban communities world-wide are faced with resolving issues around transportation management, drinking water supply, energy, housing and green space preservation. In the United States, the U.S. Green Building Council created a set of standards in 1998 titled the Leadership in Energy and Environmental Design (LEED). These standards provide guidelines and a rating system for green building construction and have led to thousands of projects focusing on sustainable construction. This commitment to green development has fostered a much higher awareness within the construction industry for including sustainable goals in new construction and existing building renovation. The need for a common measure of sustainability in urban development is enhanced by the fact more than 80 percent of the American population lives in metropolitan areas.[3]

> The American economy has evolved into a series of clusters -- networks of firms that engage in the production of similar products and the provision of similar services. And firms within these clusters crave proximity to pools of qualified workers, to specialized services like legal or finance that often require face-to-face interaction, to infrastructure that enables mobility of people and goods, to other firms so that ideas and innovations can be rapidly shared. Density -- the essence of urban places -- matters even more in the knowledge economy than it did in the industrial economy.[4]

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[1] Hawthorne, Christopher. 2006. Architecture Review; Trying to tame the mega-city; The Architecture Biennale tackles the problems stemming from the great migration into cities. September 15, Calendar; Calendar Desk; Part E; Pg. 25

[2] Knickerbocker, Brad. 2007. World first: In 2008, most people will live in cities. Christian Science Monitor, January 12, USA; Pg. 25

[3] Katz, Bruce. 2007. A Much More Urban America. The Washington Post, Washington DC, July 23, Financial; Pg. D03

[4] Ibid

Indeed, the U.S. is now primarily a 'metro-nation,'[5]

> But with America's dubious distinction as the most disproportionate user of global resources should come an equally weighty responsibility in dealing with the consequences. Starting here at home, we need to make environmental sustainability a national priority, and American consumers need more readily available environmentally-sound choices that they can afford.[6]

There is growing evidence that efforts to meet the challenge of "building green" are underway and having positive impacts on how projects are conceived and built. In 2006, it was estimated that $15 billion (about 6% of the nation's non-residential construction) would be green[7]. Portland Oregon's $2.2 billion South Waterfront project, rising from a decaying industrial site south of downtown, "signals a watershed in the green-building boom." [8] Sustainability in urban development has become a component of both public and private sector projects. For example, a prominent part of Paul Allen's Vulcan Real Estate business property development strategy centers on "making a positive impact on the community through quality design; and protecting the environment through sustainable development that conserves natural resources and creates healthy places to live and work."[9] They have followed through on this vision by developing projects such as South Lake Union's Alley 24 that contributes to "affordable and sustainable urban neighborhood(s)."[10]

In recent years, political and legislative interest in such knowledge and skills has grown exponentially at both the state and local levels. At the state level, the Governor has issued an executive order stipulating state goals for reducing carbon emissions, increasing clean energy sector jobs, creating, and complying with, codes that increase energy efficiency, and working with the public to alter behaviors that create our dependence on imported fuel. Washington State will therefore be in need of professionals trained to create innovative solutions and mobilize new knowledge of the interaction between urban landscapes and the broader environment. The Governor also calls for collaborative solutions by using the talents of private industry, public policy, and sharing resources with our neighbors.

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[5] Markham, Victoria. 2006. America's Supersized Footprint. Business Week, October 30, Outside Shot; Pg. 132 Vol. 4007

[6] Ibid

[7] Ritter, John. 2006. Building 'green' reaches a new level; Portland leads the way as 'eco-friendly' construction has gone mainstream. USA TODAY, July 27, NEWS; Pg. 1A

[8] Ibid

[9] Vulcan Website. Real Fstate and Properties-Introduction. http://www.vulcan.com/index.asp?switcher=flash (accessed December, 5 2007)

[10] Eaton, Nick. 2006. Vulcan In New South Lake Union Deal ; Company To Build Homes On Property Bought From Pemco; [Final Edition]. Seattle Post Intelligencer, Jun 22, pg. E.1

At the municipal level, Tacoma is now a member of the U.S. Mayors Climate Protection Agreement. The agreement calls for cities to abide by the requirements set forth in the Kyoto Protocol for reducing greenhouse gas emissions. With the participation of UWT Urban Studies faculty, Tacoma is now developing a comprehensive plan that involves reducing greenhouse gas emissions by using many different city departments and encouraging community goals through incentive based programs and policies. The city is looking at areas they need to improve and is considering expanding a variety of programs to meet these goals. Graduates of the proposed program at UWT would be equipped with a range of skills to be able to address these and related issues and create innovative solutions in South Sound communities.

UWT growth

Between now and 2015 the UWT student population is expected to more than double in size, adding almost 3,000 upper-division FTEs and 400 graduate FTEs. Assuming the ratio of students to FTEs remains about the same, this translates into a total headcount growth of more than 4,300. While some of this growth will be absorbed by existing programs, including Urban Studies, it is clear that new academic programs and especially majors are needed to meet the growing academic demands of this future student population. In addition, new programs and majors must prepare students for rewarding careers that drive the economy by providing graduates that both public and private employers require. As the South Sound region continue to grow, putting still more pressure on the region's already fragile ecosystems, state and local policy and planning departments, not-for-profits, environmental agencies and organizations, and private consultancy and land-development firms will require creative workers with the skills, orientation, and training that a degree in sustainable urban development offers.

Student demand/interest

UWT now draws its students from local high schools and seven community colleges in the South Sound region. This region is growing at approximately 1.5% per annum, suggesting that Pierce County alone will likely reach one million total residents before 2020 (a population significantly larger than several US states). As Table 1 below shows, regional demand for UW programs with both environmental and/or urban components are strong.

Table 1. UW student demand for urban and environmental programs

Urban/Environmental Undergraduate Course Enrollments							
	2002/ 2003	2003/ 2004	2004/ 2005	2005/ 2006	2006/ 2007	2007/ 2008	Totals
Community and Environmental Planning (UWS)	389	369	339	390	436	426	2,349
Environmental Science (UWT)	678	771	702	681	785	1103	4,720
Environmental Studies (UWT)	40	55	50	50	46	114	355
Urban Studies (UWT)	541	445	456	515	495	684	3,136
Environmental Health (UWS)	439	529	472	580	697	788	3,505

In the summer of 2001, UWT established the Urban Studies Program, expecting no more than 70 majors by 2005, its fourth full year of operation. Instead, the program had over 110 majors that same year, exceeding initial projections by more than 50%. This broad interest in urban issues per se is matched by a growing level of interest in environmental problems. Environmental Studies is a popular program at UWT -- and many Urban Studies majors enroll in Environmental Studies courses; other students have taken a minor in Environmental Studies. Stronger academic links between these two small, but dynamic, programs on campus around the interdisciplinary theme of sustainable urban development would create an opportunity not presently available in the region, thereby providing new academic and career opportunities for students.

Employment

In part because of the policy shifts discussed earlier, employment opportunities that require skills and knowledge of both urban problems and environmental dynamics are increasingly common. The following table, for example, details recent job postings for employment positions related to urban planning that also have a strong sustainability focus.

Job Title and Company	Location	Type/Function	*Level*

Senior Environmental Scientist SAIC	*Richland, WA*	CSR/ Envir Mgmt Systems, Engineering, Scientific	Senior Level
Project Manager SAIC	Richland, WA	CSR/ Envir Mgmt Systems, Engineering, Scientific	Mid Level
Green Building Project Specialist Paladino and Company, Inc	Seattle, WA	Design & Construction, Program Management	Entry level
Associate Green Building Consultant Paladino and Company, Inc.	Seattle, WA	Design & Construction, Energy, Engineering	Mid Level
Clark County Watershed Restoration Field Team Clark Parks and Recreation	Vancouver, WA	Nat. Resources/ Restoration	Internship / Volunteer
Wind Power Project Engineer Global Energy Concepts	Lowell, MA; Seattle, WA	Energy, Engineering	Mid Level
Energy Analyst Global Energy Concepts	Lowell, MA; Seattle, WA	Energy, Engineering	Mid Level
Test Engineer Global Energy Concepts	Lowell, MA; Seattle, WA	Engineering	Mid Level
Field Technician Global Energy Concepts	Lowell, MA; Seattle, WA	Energy, Engineering, Information Technology, Skilled Labor/ Technical	Mid Level
Native Plant Corps Program Manager Student Conservation	Seattle, WA	Nat. Resources/ Restoration, Program Management, Scientific	Mid Level
Associate Director, Washington Water Policy	Seattle, WA	Nat. Resources/ Restoration, Outreach/ Advocacy, Policy	Mid Level
U.S. Green Building Council	Washington, DC	Design & Construction, Program Management	Mid Level
Policy Advisor, Promoting Green NYC NYC Mayor's Office of Long-Term Planning & Sustainability	New York, NY	Communications & PR, Program Management, Sales & Marketing	Mid Level

Landscape Architect Koch Landscape Architecture	Portland, OR	Design & Construction	Mid Level
Project Architect/Designer Workshop/APD	New York, NY	Design & Construction	Mid Level
Sustainability Coordinator Baltimore City Department of Planning	Baltimore, MD	CSR/ Envir Mgmt Systems, Planning/ Land Use, Policy	Mid Level
Project Coordinator GreenShape LLC	Washington, DC	Consulting, Design & Construction, Engineering	Mid Level
Senior Manager, Sustainability Initiatives Belkin International, Inc.	Compton, CA	CSR/ Envir Mgmt Systems	Mid Level
Program Manager, Green Cities Project Student Conservation Association (SCA)	Pittsburgh, PA	CSR/ Envir Mgmt Systems, Program Management	Mid Level
LEED for Homes Program Manager	Washington, DC	Design & Construction,	Mid Level
LEED Accredited Professional GreenWorks Studio	Los Angeles, CA	Design & Construction	Mid Level

Source: http://www.sustainablebusiness.com/

C. Relationship to Other institutions

Duplication

The proposed major in Sustainable Urban Development will not result in duplication within the University of Washington system nor in the State of Washington or even the Pacific Northwest. The Bothell campus does not offer any undergraduate programs that overlap with this proposal. Nor does Seattle have a major of this kind, although they do have an undergraduate degree entitled "Community and Environmental Planning." This program, while also serving a different geographical population than does UWT, takes a different approach than does the proposed major. CEP emphasizes the planning process while this major

focuses on urban development dynamics more broadly, especially as they overlap with the environmental sciences, one of the strengths on this campus.

Uniqueness of the program

No private or public college or university in Washington offers a BA or BS in Sustainable Urban Development. Again, this is likely one of the first undergraduate majors of its kind in the country and one of a handful in the world. Portland State University offers a minor in sustainable urban development, but not yet a major. The Evergreen State College offers a BA in Liberal Arts with urban and environmental topics, but these topics change from year to year and serve a narrower, more targeted group of potential students than does UWT.

II. PROGRAM DESCRIPTION

The proposed major will provide students with an opportunity to further their understanding of important issues and challenges in making cities and metropolitan regions more sustainable while also providing the foundation for advancing their professional and academic interests in the numerous opportunities now emerging in the region and the country. As one of the few undergraduate majors in urban sustainable development in the entire country, the proposed major builds on skills generated by discipline-based study, but also makes it possible to address linkages between people in the social, natural, and built environments. Students will work on real-world challenges using various approaches but focused on the interaction of environmental, economic and social systems. Based in the Urban Studies program, but drawing largely on the existing resources of the campus as a whole, the proposed degree will be most suitable for students inclined toward social science, environmental studies and urban planning. Graduates will be able to move on to graduate-degree programs or gain employment in areas such as local, state and federal government as well as private consultancies and community advocacy organizations.

A. Goals, Objectives, Student Learning Outcomes

Goals: Broadly defined, the goals of the proposed major are:

- To provide students with a broad but concrete understanding of the various linkages between urban ecosystems, urban systems (planning,

transit, energy, etc.) and the multi-dimensional problems of urbanization, especially as these relate to public policy and urban advocacy;
- To equip students with knowledge and skills necessary to pursue careers related to the multifaceted and interconnected nature of sustainability problems and the dynamics of urban development;
- To serve as a resource, through service and research, to communities in the South Sound region.

Objectives: The specific objectives of the proposed major are:

- To provide students with a holistic view of urban sustainability and the practical application of their classroom experience;
- To instill an awareness of the interconnectedness of the environment, economics and social equity, and their importance in creating sustainable urban centers;
- To create an interdisciplinary curriculum that provides students with an understanding of all facets of sustainability in an urban setting and allows them to solve complex problems in a variety of settings;
- To equip students with practical experience, deep theoretical background, the ability to solve complex problems, and comprehension of related technologies.

Learning outcomes: Upon completion of the major, student will be able:

- To approach urban sustainability with a multi-disciplinary background;
- To apply innovative approaches to complex problems involving a variety of issues;
- To compare and contrast the impacts of urban development on all parts of the urban setting and sustainability;
- To demonstrate effectiveness in written and oral communications skills, critical thinking, and application of theory;
- To demonstrate appreciation for all aspects of sustainability issues, regardless of specialty, and the complex solutions required for success in the field.

B. Curriculum

Course of Study: The curriculum of the Sustainable Urban Development program will consist of a set of required core courses and electives that students can choose with their adviser. Through the core courses and electives students will be able to tailor their studies to emphasize specific aspects of sustainable urban development. Classes will be drawn from different disciplines, including Urban Studies, Environmental Science, and Interdisciplinary Arts and Sciences. With the counsel of their program advisor, students may choose to focus mostly on planning, policy, environmental science themes. Alternatively, students may choose a combination of courses from some or all of these areas.

Summary:

39 credits of Core
5 credits of internship/seminar/case studies
20 credits of planning/policy/environmental electives

---

64 credits

Core courses: **[39 credits]**

• TURB xxx	Introduction to Sustainability	3 credits
• TURB 231	Introduction to Urban Planning	5 credits
• TURB xxx	Sustainable Urban Development Policies	5 credits
• TURB xxx	Urban Systems and Sustainability	5 credits
• TURB xxx	Urban Ecology	5 credits
• TURB xxx	Sustainable Community Planning and Design	5 credits
• TURB 440	The City and Nature	5 credits
• TGIS 311	Maps and GIS	6 credits

Select 20 credits from the areas below in consultation with an advisor:

I. Planning Practices and Techniques

• TURB 335	Community Development	5 credits
• TURB 321	History of Planning Theory and Practice	5 credits
• TURB 350	Introduction to Urban Research	5 credits
• TURB 479	Plng. and Dev. in the Puget Sound Region	3 credits

II. Policy

- TEST 333 Environmental Policy Applications 5 credits
- TESC 345 Pollution and Public Policy 5 credits
- TURB 410 Environmental Equity 5 credits
- TURB 415 Urban Government 5 credits
- TSMUS 421 Environmental Policy 5 credits
- TCSIUS 438 Environmental Law 5 credits
- THLTH 472 Human Health and the Environment 5 credits

III. Environmental Science

- TESC 239 Energy and the environment 5 credits
- TESC 321 Soils and environmental applications 5 credits
- TESC 343 The atmosphere and air pollution 6 credits
- TESC 362 Introduction to Restoration Ecology 7 credits
- TESC 431 Water Resources and Pollution 7 credits

Select one of the following culminating experiences

- TURB xxx Community Sustainability Internship 5 credits
- TURB xxx Capstone Seminar 5 credits
- TURB xxx Case Studies in Urban Sustainable Development 5 credits

Required Core Courses:

TURB xxx Introduction to Sustainability. This course provides a survey of the overall concept of sustainable development as a major global political challenge in the contemporary world. Examines the history of the concept, surveys the content of key international conferences and policies associated with current global sustainability goals, especially Agenda 21; introduces basic scientific debates around the concept of sustainability; explores conflicts between societies at different levels of economics development; and compares and contrasts the roles and techniques used by the private sector (firms) with public sector (governments, international organizations, etc.) to further sustainable development.

TURB 211 Introduction to Urban Planning. This course focuses on the role of urban planning in the spatial organization of cities and urban regions. It addresses the various schools of thought that have shaped the planning profession over the past century and surveys the important economic interests, cultural values, political debates, ecological concerns, and especially regulatory tools that relate to contemporary American planning. Planning specialties are covered and special attention is paid to "nuts-and-bolts" issues associated with planning practice at the level of the local municipality.

TURB xxx Sustainable Urban Development Policies This course provides an introduction to sustainable development policy tools as developed and applied at the federal, state, regional, and local levels. The course specifically examines the successes and failures of a range of policies designed to achieve sustainability. Particular attention is devoted to real-world case studies and to policy environments across governmental scales.

TURB xxx Urban Systems and Sustainability. This course examines the social, economic and environmental dimensions of sustainability in urban environments, with a focus on major urban systems governed by public authorities (transport, waste, open space, energy, etc.). Recent initiatives and programs that try to address the systematic challenges of urban sustainability from both developed and developing countries are studied and compared. Opportunities for avoiding unsustainable practices are also analyzed. This course thus covers spatial and non-spatial issues and policies that address the specific goal of sustainable cities.

TURB xxx Sustainable Community Planning and Design (currently TURB 460). This course focuses more narrowly on how contemporary urban planning and design practices are being influenced by overall sustainable goals, especially as this relates to the physical development of urban areas. Special attention is paid to recent innovations in green planning support systems; the preparation of green land-use and infrastructure plans and form-based codes; and urban designs that contributes to sustainability. The course utilizes local experts in the field of environmental planning, green architecture and ecological design.

TURB xxx Urban Ecology. This course offers a multidisciplinary approach to the study of dynamic interactions among human and ecological systems in urban settings. Its goal is to help students understand the processes of urbanization and urbanization's impacts on the earth's ecology. Specific themes include how socioeconomic factors and human preferences drive urban patterns and how these patterns affect ecological processes and cause ecological change.

TURB 440 The City and Nature This course examines connections between urban and environmental conditions by investigating the social and material production of urban nature. Challenges conceptual barriers between nature and the city that have evolved over time and considers new strategies for achieving both environmental sustainability and social justice in the city.

TGIS 311 Maps and Gis This course provides a foundation in map making and basic spatial analysis. GIS has become the most important methodological/analytical tool in the planning field. Further, it provides students with skills in visual/graphic displays of data and information.

Admission requirements. Admission to study at the University of Washington, Tacoma.

Course Sharing. The proposed program supports the interdisciplinary nature of the University of Washington, Tacoma by providing learners with the opportunity to take electives outside those offered by Urban studies faculty. This will decrease the number of new courses to be created in order to provide the major.

C Use of technology

No new technology requirements are needed to offer this major other than those already associated with FTE growth on the UWT Campus. However, technology will be applied to the new major in a variety of ways. At present, UWT has a full-range of computers in labs and classroom that are available for student use there are several labs and classrooms fully outfitted with computers, primarily PCs. Students will use these resources for the qualitative methods requirements, geographic information systems course and for individual research projects.

Courses will include assignments that require internet use to obtain data sets and other relevant information. In addition, students will make use of electronic library databases, course reserves and interlibrary loan recourses.

Faculty, staff and students make use of email for frequent communication, assignments, advising, and discussions. There are multiple opportunities for faculty development in the use of educational technology.

Digital cameras and related media tools will be utilized for instructional purposes as will the equipment in smart classroom. It is also anticipated that WebPages will be development for individual courses in order to enhance student's learning opportunities.

D. Faculty

The majority of faculty members within the Urban Studies program, including a new tenure-track position starting in Fall 2008, will contribute to the new major as will a number of IAS faculty members since a number of IAS courses serve as electives.

E. Students

Projected enrollments

No. of students	Year 1	Year 2	Year 3	Year 4	Year 5
Headcount	18	37	55	73	73
FTE	15	30	45	60	60

Projected time for program completion

Projected time for program completion is two years full time students.

Diversity

As part of the Urban Studies program, at UWT, the proposed degree is committed to the principles of a diverse student population as articulated by the University of Washington. Every effort will be made to recruit and retain a diverse student body. UW seeks diverse applicants with respect to individual characteristics, experiences, culture, ethnicity, and physical abilities. The University of Washington has in place anti-discrimination policies that are reprinted in the University Handbook and disseminated to students, staff and faculty. Those affiliated with the proposed degree are strongly committed to implementing these policies.

Administration

In addition to support already provided by the Urban Studies program administrator and her administrative assistant, we are requesting an additional half-line staff person (see Budget).

III. PROGRAM ASSESSMENT

A. Program Outcomes and Assessment Plan

The purpose of evaluation is to reinforce or emphasize the goals and objectives of a program and to improve performance and delivery, particularly where these involve teaching quality and skills acquisition. Evaluation is therefore the basis for future planning and decision-making. With this in mind, the proposed major will be assessed in the following manner:

- *Quarterly student course evaluations.* In keeping with the tradition already established in the Urban Studies program, each and every class will be evaluated every quarter. This includes both quantitative and qualitative representations of course content, relevance and delivery, especially as they relate directly to learning goals.
- *Classroom assessment (Peer Evaluation of Teaching).* In addition to student evaluations, peer evaluations will be used to help determine the quality of instruction. While this practice is already required annually of junior faculty, the use of this technique will be deployed more frequently and will not simply relate to the instructor's skills but also to the course as a whole, including syllabi review, comments on class exercises and assignments, and discussions with students.
- *Focus groups with students.* Periodic focus groups with students will be conducted to determine the extent to which the overall model and the approach to curriculum are meeting our expectations.
- *Exit Surveys.* A final form of evaluation will be to develop a data base constituted by exit interviews of a sample of our students graduating from our proposed major.

IV. FINANCES

Proposed Budget Details

Once again, because a tenure-track faculty line in Urban Sustainability and Environmental Planning *has already been* budgeted for 2008 onwards, no new lines are needed at this time. Accordingly, the only budgetary request for this proposed major, which is extremely cost effective to establish as it draws almost entirely on extant resources, is one staff member (50% effort) at $20,000 per annum plus benefits of 28.7% for a total, ongoing cost from Year 1 of $25,740, adjusted accordingly thereafter.

V. PROPOSED EXTERNAL REVIEWERS

Dr. Ali Modarres, Associate Director
Pat Brown Institute of Public Affairs
California State University, Los Angeles
5151 State University Dr.
Los Angeles, CA 90032-8261

Dr. Peter V. Hall
Urban Studies Program
Associate Director,
Centre for Sustainable Community Development
Simon Fraser University

Dr. Richard Cowell
School of City and Regional Planning
Glamorgan Building
Cardiff University
King Edward VII Avenue
Cardiff CF10 3WA
United Kingdom

Tacoma: Bachelor of Arts in Sustainable Urban Development (TURB-20080624)

Tri-Campus Review Comments:

Comment by Jill Purdy made 9/26/2008 10:57:13 AM
A unique and important option for the 21st century. A good addition to the UW portfolio of educational options.

Comment by Claudia Gorbman made 9/26/2008 12:30:20 PM
Innovative, sound, creative program, relevant and crucial to the region's real needs, that will help make UWT a leader as a forward-thinking institution. Also, eminently feasible.

Comment by D. Janssen made 9/26/2008 2:02:22 PM
The program appears to be significantly lacking in requirements in the areas of the sciences and mathematics. Sustainability cannot be studied without detailed analysis that requires more than just rudimentary skills in mathematics and the sciences. The proposal should be modified to ensure that all graduates have the mathematical analysis skills as well as the necessary understanding of the appropriate sciences in order to understand the various factors affecting sustainability.

Comment by Erica Cline made 9/26/2008 2:04:15 PM
Another environmental course (part III of electives) that might be a good option is the environmental microbiology course, TESC378, which deals with water and waste treatment, etc...

Comment by Wayne Jacobson made 9/30/2008 10:40:53 AM
Would it be possible to identify some ways of assessing program learning outcomes? There is some assessment of instructional quality (student ratings and peer review) and student perceptions of their experiences in the program (focus groups and exit surveys), but these won't necessarily demonstrate how well the program is preparing students for the tasks that are specified in the Learning Outcomes. Therefore, can you include in your Assessment Plan some discussion of how you will be looking at student learning -- possibly using material already collected through the program, such as work generated through capstone projects or contents of student learning portfolios? It would also be useful to see how you're planning to make use of information that you'll be able to get in the future from alumni, employers, or others in the community impacted by this program.

Comment by fritz wagner made 10/4/2008 12:16:44 PM
The program is well crafted and will be an important program for UWT. There is demand for this program not only in the SEATAC Metro area but across the US and Canada. Given this, I believe the program will attract many students and will become a very successful program. The budget appears to be adequate for program implementation. Overall, I like the name of the program and strongly encourage approval.

Date: October 29, 2008

To: The Faculty Council on Tri-Campus Policy

From: Brian Coffey, Professor & Director/Urban Studies

Re: Tri-Campus review of the proposed major in Sustainable Urban Development

This memorandum is in response to tri-campus comments made about UWT's proposed major in Sustainable Urban Development. During the review period six individuals commented on the proposal. Three of these were supportive of the proposal. Three others made suggestions for change. The suggested changes are addressed below.

1. One reviewer recommended adding UWT's Environmental Microbiology course (TESC378) to the elective list. This course deals with water, waste treatment, etc. We agree that this is an appropriate elective and have added it to the list of options (see page 14).

2. Another reviewer suggested that the Assessment Plan include additional content regarding evaluation of student learning. This same reviewer also recommended that plans to make use of future information from alumni and employers be discussed. The proposal has been revised to address these matters (see page 19).

3. A third reviewer called for more math and science to be included in the requirements because the study of sustainability requires detailed mathematical and scientific analysis. It is important to point out that this is not a major in sustainability per se. Rather, it is a major in urban development based on sustainable principles and concepts. Thus, graduates are not critiquing sustainability models and theories so much as they are applying generally accepted principles and policies to the development process. For science-oriented majors there is the option to take a number of science classes for the major. However, it should also be noted that this is a BA degree rather than a BS degree.

Should the Council have any questions or require any additional information please do not hesitate to contact me.

UNIVERSITY CAMPUSES UNDERGRADUATE PROGRAM REVIEW PROCEDURES**

CHECKLIST

Title of Proposal: Bachelor of Arts degree in Sustainable Urban Development (TURB-20080624)

Proposed by (unit name): Urban Studies

Originating Campus:

___UW, Seattle

___UW, Bothell

_X_UW, Tacoma

I. **Phase I. Developed Proposal Review** (to be completed by Originating Campus' Academic Program Review body)

A. Review Completed by: (list name of program review body)

Chaired by:

07/11/08 Date proposal received by originating campus's review body

08/22/08 Date proposal sent to University Registrar

09/26/08 Date proposal posted & email sent to standard notification list

11/13/08 Date of originating campus's curriculum body approval
(Note: this date must be 15 business days or more following date of posting)

B. __6___ Number of comments received. Attach the comments and a summary of the consideration and responses thereof: (1-2 paragraphs)

II. **Phase II. Final Proposal Review** (to be completed by FCTCP)

A. Review Completed by:
_X__ FCTCP subcommittee
___ FCTCP full council
Chaired by: Janet Primomo, UW Tacoma

11/18/08 Date request for review received from University Registrar
12/5/08 Date of FCTCP report

B. Review (attached)

YES NO
_x__ ___ Was notice of proposal posted on UW Website for 15 business days?
_x__ ___ Was notice of proposal sent to standard mailing list 15 business days in advance of academic program review?
_x_ ___ Were comments received by academic program review body?
_x__ ___ Was response to comments appropriate? (explain, if necessary)
_x__ ___ Was final proposal reviewed by FCTCP within 14 days of receipt?
_x__ ___ Was there adherence to the University Campuses Undergraduate Program Review Process? (explain, if necessary)

C. Recommendation

Summary: The FCTCP Curriculum Review Sub-Committee completed the Phase II review of this proposal. The Sub-committee noted that all procedures were followed. The proposal generated 6 comments. The originating program responded to the comment about math preparation.

The FCTCP sub-committee is pleased to have the Registrar forward the final proposal to the President for final action and transmit the information to the UWT Chancellor. Thank you.
Janet Primomo, Chair, FCTCP

_x__ Forward for final approval
___ Forward to Provost because of University issues (Explain)
___ Return to campus council because of insufficient review (Explain).

**Endorsed by Faculty Senate Executive Committee, 1/10/05, modified 1/31/06; These procedures apply to new undergraduate degrees, majors, minors (and certificates) and substantive changes to same

STATE OF WASHINGTON
HIGHER EDUCATION COORDINATING BOARD
917 Lakeridge Way • PO Box 43430 • Olympia, WA 98504-3430 • (360) 753-7800 • FAX (360) 753-7808 • www.hecb.wa.gov

June 9, 2010

Dr. Patricia Spakes
Chancellor
University of Washington Tacoma
Box 358430
Tacoma, WA 98402-3100

Dear Dr. Spakes:

The Higher Education Coordinating Board reviewed University of Washington Tacoma's request to establish a Bachelor of Arts in Sustainable Urban Development at its May 13, 2010 meeting.

Resolution No. 10-09 (copy enclosed) was adopted by the Board and grants approval to University of Washington Tacoma to begin offering the degree program effective immediately.

We have also forwarded a copy of the report and resolution to our veterans' affairs approval unit, the State Approving Agency, and have assigned CIP Code 45.1201 to this program.

We wish you success with this program.

Sincerely,

Randy Spaulding, Ph.D.
Director of Academic Affairs

cc: Don Bennett, Interim Executive Director
Michael Ball, Associate Director, State Approving Agency

STATE OF WASHINGTON

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RESOLUTION NO. 10-09

WHEREAS, The University of Washington Tacoma proposes to offer a Bachelor of Arts in Sustainable Urban Development; and

WHEREAS, The program would respond to student, employer, and community need, providing well-trained students whose knowledge and skills guide urban change towards a more sustainable socio-natural environment; and

WHEREAS, The program's students would study a rigorous curriculum, taught by excellent faculty and leading to graduate education in environmental studies and urban planning or employment in critical positions in the local community; and

WHEREAS, The program has support from external reviewers; and

WHEREAS, The program would not unnecessarily duplicate existing programs; and

WHEREAS, The program would be offered at a reasonable cost;

THEREFORE, BE IT RESOLVED, That the Higher Education Coordinating Board approves the Bachelor of Arts in Sustainable Urban Development at the University of Washington Tacoma effective May 13, 2010.

Adopted:

May 13, 2010

Attest:

Jesus Hernandez, Chair

Earl Hale, Vice Chair