

**NEW DEGREE PROGRAM PLANNING NOTIFICATION OF INTENT  
PLANNING NOI Cover for:**

**Bachelor of Arts in Sustainable Urban Development**

**Program Information**

Program Name: BA in Sustainable Urban Development

Institution Name: University of Washington Tacoma

Degree Granting Unit: Urban Studies  
(e.g. College of Arts and Science)

Degree: BA in Sustainable Urban Development Level: Bachelor Type: Arts  
(e.g. B.S. Chemistry) (e.g. Bachelor) (e.g. Science)

Major: Sustainable Urban Development CIP Code: 45.1201  
(e.g. Chemistry)

Minor: N/A  
(if required for major)

Proposed Start Date: Fall 2008

Projected Enrollment (FTE) in Year One: 15 At Full Enrollment by Year: 2 : 30  
(# FTE) (# FTE)

Proposed New Funding: 26,000/yr

Funding Source:  State FTE

**Mode of Delivery**

Single Campus Delivery Tacoma  
Off-campus Delivery N/A  
Distance Delivery N/A

**Substantive Statement of Need**

*Attached*

**Contact Information (Academic Department Representative)**

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 8/12/08  
Endorsement by Chief Academic Officer Date

## Substantive Statement of Need

### **I. Degree Program Description**

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 The University of Washington Tacoma (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 organizations, and environmental/resource related agencies at the local, state, and federal levels of government.

As the only known undergraduate major in urban sustainable development in the 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. 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.

### **II. Relationship to Institutional Role and Mission**

UW Tacoma 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. UW Tacoma has long offered high quality teaching and research with a tradition of public service and community involvement. The mission of UW Tacoma 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.

UW Tacoma takes an interdisciplinary approach to this mission and, hence, encourages collaboration and cooperation between programs and academic units within the University, including among campuses. The proposed degree in Sustainable Urban Development strengthens the overall mission of UW Tacoma as a metropolitan research university as well as the interdisciplinary approach to higher education and is designed to meet UW Tacoma's responsibility to provide society with well-trained students whose knowledge and skills inform societal goals and that guide urban change towards more sustainable urban 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 draw on courses in Business, Social Welfare, Computer Sciences, Nursing and Education.

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, only one institution currently offers a program with a named degree in “Sustainable Development”, though students at other institutions are offered the option of selecting sustainability as a “concentration.” Moreover, no other institution in the United States has offered an undergraduate major in sustainable urban development. In this sense, UW Tacoma 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 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.

### **III. Documentation of need and demand**

Between now and 2014 the UW Tacoma 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. As indicated in the State and Regional Needs Assessment Report, the demand at the state level is also increasing,

Student demand for education is increasing due to population growth and the determination of more students to seek a bachelor’s degree. To meet demand based solely on population growth, the public higher education system would need to add approximately 21,000 full-time equivalent students by 2010 beyond 2004 enrollment levels.<sup>1</sup>

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 need. As the South Sound region continues 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 workers with the skills, orientation, and training that a degree in sustainable urban development offers.

#### **A. Student**

UW Tacoma 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 by approximately 2020 (a population significantly larger than several US states). As Table 1

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<sup>1</sup> State and Regional Needs Assessment Report, February 2006, <http://www.hecb.wa.gov/news/newsreports/documents/StateandRegionalNeedsAssessmentReportRevisedFebruary2006.pdf>

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

UW Seattle Course Enrollments							
	2002/ 2003	2003/ 2004	2004/ 2005	2005/ 2006	2006/ 2007	2007/ 2008 (Partial year)	Totals
Sustainable Resource Sciences	89	73	18	7	1	0	188
Urban Design & Planning	297	332	355	336	348	143	1,811
Urban Planning/Public Administration	18	20	19	15	26	11	109
Urban Studies	0	11	10	12	5	3	41
UW Tacoma Course Enrollments							
	2002/ 2003	2003/ 2004	2004/ 2005	2005/ 2006	2006/ 2007	2007/ 2008 (Partial year)	Totals
Environmental Science (Tacoma)	118	124	112	127	135	63	679
IAS (Environmental Studies)	44	42	48	45	30	12	221
Urban Studies	244	311	371	317	247	83	1,573

In the summer of 2001, UW Tacoma 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 UW Tacoma -- 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.

## **B. Community**

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 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%.”<sup>2</sup> 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.”<sup>3</sup> 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 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 “83 percent of the American population lives in metropolitan areas.”<sup>4</sup>

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.<sup>5</sup>

“The U.S. is now primarily a ‘metro-nation,’ with four out of five Americans living in suburban and metropolitan areas.”<sup>6</sup>

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.<sup>7</sup>

There is 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

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<sup>2</sup> 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

<sup>3</sup> Knickerbocker, Brad. 2007. World first: In 2008, most people will live in cities. Christian Science Monitor, January 12, USA; Pg. 25

<sup>4</sup> Katz, Bruce. 2007. A Much More Urban America. The Washington Post, Washington DC, July 23, Financial; Pg. D03

<sup>5</sup> Ibid

<sup>6</sup> Markham, Victoria. 2006. America's Supersized Footprint. Business Week, October 30, Outside Shot; Pg. 132 Vol. 4007

<sup>7</sup> Ibid

that \$15 billion (about 6% of the nation's non-residential construction) would be green<sup>8</sup>. Portland Oregon's "\$2.2 billion South Waterfront project, rising on a decaying industrial site south of downtown, signals a watershed in the green-building boom."<sup>9</sup> 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."<sup>10</sup> 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)."<sup>11</sup>

In recent years, political and legislative interest in such knowledge and skills has grown 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 be in need of professionals trained to create innovative solutions and intricate knowledge of the interaction between urban landscapes and the environment. The Governor also calls for collaborative solutions by using the talents of private industry, public policy, and sharing resources with our neighbors.

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 UW Tacoma 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 considering expanding a variety of programs to meet these goals. Graduates of the proposed program at UW Tacoma would be equipped with a range of skills to be able to address these and related issues and create innovative solutions in local communities.

### C. Workforce

In part because of policy shifts discussed early, employment opportunities that require skills and knowledge of both urban problems and environmental issues 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

<sup>8</sup> 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

<sup>9</sup> Ibid

<sup>10</sup> Vulcan Website. Real Estate and Properties-Introduction. <http://www.vulcan.com/index.asp?switcher=flash> (accessed December, 5 2007)

<sup>11</sup> 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

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 Association (SCA)	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	Los Angeles,	Design & Construction	Mid Level

Professional GreenWorks Studio	CA		
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Source: <http://www.sustainablebusiness.com/>

#### **IV. 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 (CEP).” This program, while also serving a different geographical population than does UW Tacoma, takes a different approach than does the proposed major. CEP emphasizes the planning process while this major focus 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 the first undergraduate major of its kind in the entire country and one of a handful in the world. Portland State University offers a minor in sustainable urban development, but not 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 UW Tacoma.

#### **V. Relationship to HECB Master Plan; State and Regional Needs Assessment**

Students in the proposed degree program will work on real-world challenges using various approaches while focusing on the interaction of environmental, economic and social systems which “drives greater economic prosperity, innovation and opportunity”<sup>12</sup>

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.

#### **VI. Curriculum**

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.

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;

<sup>12</sup> HECB Master Plan, <http://www.hecb.wa.gov/news/newsreports/documents/2008MasterPlan-fromPRT.pdf>



- TURB 316 Cities and Citizenship 5 credits
- TURB Urban Government 5 credits
- TURB 475 Community and Economy 5 credits
- TSMUS 417 Urban Problems and Policies 5 credits
- TSMUS 421 Environmental Policy 5 credits
- TEST 221 Environmental History: Water 5 credits
- TEST 332 A Natural History of Garbage 5 credits
- TCSIG 445 The Metropolis 5 credits
- TCSIIN 438 History of Urbanization and the Environ. 5 credits
- TCSUIS 335 Social Class and Inequality 5 credits
- TCSIUS 438 Environmental Law 5 credits
- TURB 301 The Urban Condition 5 credits
- TURB 318 Organizing Communities 5 credits
- TURB 335 Community Development 5 credits
- TURB 410 Environmental Equity 5 credits
- TURB 475 Community and Economy 5 credits
- TURB 479 Plng and Dev. in the Puget Sound Region 5 credits
- THLTH 472 Human Health and the Environment 5 credits
- TSMUS 417 Urban Problems and Policies 5 credits
- TSMUS 421 Environmental Policy 5 credits
- TGH 303 Global Challenges 5 credits
- TURB 321: History of planning theory and practice 5 credits
- TCSIIN 438: History of Urbanization & Environment 5 credits
- TURB 440: The City and Nature 5 credits

### **Environmental Science Electives**

- TESC 340 Ecology and Applications 5 credits
- TESC 362 Introduction to Restoration Ecology 5 credits
- TESC 431 Water Resources and Pollution 5 credits
- T GIS 311 Maps and GIS 6 credits
- T GIS 312 GIS Data and Analysis 6 credits
- T GIS 313 GIS Project Design 3 credits
- T GIS 414 Advanced GIS 6 credits
- TESC 304 Tropical Ecology and Sustainability 5 credits
- TESC 340 Ecology and Its Applications 5 credits
- TESC 345 Pollution and Public Policy 5 credits
- TESC 362 Introduction to Restoration Ecology 5 credits
- TESC 431 Water Resources and Pollution 5 credits

### **Internship/seminar**

**[5 credits]**

- Community Internship or Capstone Seminar 5 credits

### **VII. Faculty**

All faculty members within the Urban Studies program, including a new tenure-track position starting in Fall 2008, will contribute to the new major. (This will not affect current commitments to Urban Studies majors.) No new lines are required at this time. In addition, faculty within IAS

and especially Environmental Science will also contribute to the development and implementation of the new major.

## **APPENDIX 1 US Academic programs with sustainability focus**

### **Portland State University: Minor in Sustainable Urban Development**

<http://www.pdx.edu/usp/sustainability.html>

<http://www.pdx.edu/usp/curriculum.html>

<http://www.aashe.org/resources/profiles/portlandstate2006.php>

<http://www.pdx.edu/cpsa/news/5347/>

*Although PSU believes sustainability should be integrated into all disciplines and not just a stand-alone degree, undergraduate students do now have two sustainability minors to choose from, one in sustainability and the other in sustainable urban development.*

*Students who complete the minor will understand the foundations of sustainability, including the 3 E's of environment, economics and equity as these domains of learning apply to the urban and built environment. In addition, students will develop literacy in the applications of these concepts to specific fields of urban planning and community development, including land use, transportation, urban environmental management, natural resource conservation and urban ecology.*

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### **Yale University: Center for Business and the Environment**

<http://research.yale.edu/cbey/index.php?page=specialties>

*Students at Yale tailor their course selection to their individual interests selecting from an extensive and ever-growing list of courses in business and the environment. Urban and Industrial Environmental Management focuses on sustainable. Urban and Industrial Environmental Management development - industrial ecology - supply chain - globalization/trade and the environment*

### **Columbia University: School of International and Public Affairs (SIPA) - Urban Policy Curriculum - Sustainable Urban Development**

[http://www.sipa.columbia.edu/academics/concentrations/urban\\_policy/curriculum.html](http://www.sipa.columbia.edu/academics/concentrations/urban_policy/curriculum.html)

*This focus draws on synergies with course offerings in the Sustainable Development PhD program at SIPA, the development concentration for master students at SIPA, and the programs of Columbia's Earth Institute.*

### **Columbia University: the Center for Sustainable Urban Development (CSUD)**

<http://www.earthinstitute.columbia.edu/csud/>

*The Columbia University urban planning studio is one of the central aspects of the center's educational activities. A planning studio involves a small group of students, working under the supervision of one or two faculty members. The studios will be international, focusing on sustainable urban development in rapidly growing cities in developing countries.*

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### **Arizona State University: School of Planning - Environmental Planning Specialization**

<http://design.asu.edu/planning/curriculum.shtml>

<http://design.asu.edu/planning/curriculum.shtml>

*The School of Planning is comprised of two degree programs—the Master of Urban and Environmental Planning and the Bachelor of Science in Planning. Urban and environmental sustainability are emphasized.*

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**San Francisco State University: Urban Studies Program**

[http://bss.sfsu.edu/urbs/about\\_program.htm](http://bss.sfsu.edu/urbs/about_program.htm)

*Critical contemporary issues are addressed through substantive courses focused on policy areas such as sustainable urban development, housing and community development, health care, poverty, transportation, environmental justice, and family policy. Hands-on practical experience is given particular emphasis through carefully supervised internships and a senior seminar in which teams of student consultants produce projects for local agencies and organizations.*

**San Francisco State University: Urban Studies Program - Sustainable Urban Development NSF Curriculum Module**

[http://oerl.sri.com/reports/cd/report10/report10\\_exec.html](http://oerl.sri.com/reports/cd/report10/report10_exec.html)

*The modules were intended to require students to interact with web-based material and utilize new information technology... This module was a series of mandatory web-based exercises implemented in fall 2000 in Urban Studies Research Methods (URBS 492).*

Following is a sampling of course options and classes in sustainability, urban and community development offered at US colleges and universities:

**1. Georgia Tech: Sustainable Urban Development**

<http://www.library.gatech.edu/architect/pdf/SustDev.pdf>

**2. New York University: Sustainable Cities in a Comparative Perspective**

<http://wagner.nyu.edu/syllabus/200609/P11.2613.pdf>

**3. University of Wisconsin-Milwaukee: 880 Challenges to Urban Sustainability**

<http://www.uwm.edu/SARUP/syllabi/planning/945-880-spring2006.pdf>

**4. University of Wisconsin-Madison: The Urban Environment**

[https://mywebpace.wisc.edu/aschneider4/classes/urbanenvironment\\_syllabus.pdf](https://mywebpace.wisc.edu/aschneider4/classes/urbanenvironment_syllabus.pdf)

**5. UCLA: Urbanization in the "Developing" World**

<http://www.spsr.ucla.edu/up/webfiles/F06/235AF06.pdf>

**6. University of California at Berkeley: Introduction to City Planning**

<http://www-dcrp.ced.berkeley.edu/Courses/Fall%202003/CP110%20Binger.pdf>

**7. The City University of New York: Nature and Environment of New York City**

[http://hunter.cuny.edu/honorscollege/documents/solecki\\_f06.pdf](http://hunter.cuny.edu/honorscollege/documents/solecki_f06.pdf)

**9. New York University: Sustainable Cities**

<http://wagner.nyu.edu/syllabus/200501/P11.2613.pdf>

**10. University of California, Berkeley: Sustainable Communities**

<http://www-dcrp.ced.berkeley.edu/Courses/Fall%202004/CY%20PLAN%20C254.pdf>

**11. Ohio State University: Planning for Sustainable Development, Envisioning a Sustainable OSU**

<http://artsandsciences.osu.edu/currofc/docs/460/CRP%20724.pdf>

## **APPENDIX 2. Community ACTORS IN SUSTAINABILITY**

### **Puget Creek Restoration Society**

Marian Berejikian- Executive Director  
253-779-8890

Puget Creek Restoration Society works on 66 acres of natural area in the Proctor/North End area of Tacoma. It's one of three salmon bearing streams in the city and salmon returned in 2000. They work with the community, providing volunteer opportunities and education programs. They actively use interns, especially restoration and GIS students.

### **Citizens for a Healthy Bay**

Stanley Cummings- Executive Director  
253-383-2429

Work on clean-up and restoration, as policy advocates, and running education programs related to the waters surrounding Tacoma.

### **Tacoma Power**

Info line: 253-503-8377

Tacoma Power is promoting a green energy program, charging a fee to consumers who choose to participate, that provides a certain amount of green energy into the overall grid.

### **City of Tacoma**

Diane Winatr- Urban Planner/Commute Trip Reduction Coordinator  
dwinatr@cityoftacoma.org or 253-591-5380

Alicia Lawver- Community Relations Specialist for the Environmental Services division  
alawver@cityoftacoma.org or 253-591-5414

Jake Fey- City Council  
jfey@cityoftacoma.org or 253-927-1068

Bill Baarsma- Mayor of Tacoma  
bbaarsma@cityoftacoma.org

Ryan Petty- Director of Community and Economic Development Team  
ryan.petty@ci.tacoma.wa.us or 253-591-5139

### **Cascade Land Conservancy**

Ryan Mello  
ryanm@cascadeland.org or 253-274-4955

### **Metro Parks**

Lois Stark- Chief Planner  
loiss@tacomaparks.com or 253-305-1077

### **Puget Sound Clean Air Agency**

Leslie Stanton- Air Resources Specialist  
leslies@pscleanair.org or 206-689-4022

### **Pierce County**

Debby Hyde- Special Projects Coordinator  
dhyde@co.pierce.wa.us or 253-789-7110

Members of the City's Climate Action Task Force

Dale Anderson, BCRA  
Paul Birkey, Belina Interiors Inc  
Joanne Buselmeier, Tacoma-Pierce County Chamber of Commerce  
Sian Davies-Vollum, University of WA/Tacoma  
Lynne Griffith, Pierce Transit  
John Hickey, University of Puget Sound  
Greg Jacoby, McGavick Graves  
Mike Jagielski, International Longshore and Warehouse Union  
Krystal Kyer, Tahoma Audubon Society  
Vance Lelli, International Longshore and Warehouse Union  
Steve Marek, Tacoma-Pierce County Health Department  
Sue Mauermann, Port of Tacoma  
Dave McEntee, Simpson  
Bliss Moore, Sierra Club  
Bill Osborne, Community Council  
Elaine Ott, Richlite Company  
Tiffany Speir, Master Builders Association  
Bob Stivers, Citizens for a Healthy Bay  
Claudia Thomas, Mayor, City of Lakewood  
Tim Thompson, Thompson Smitch Consultant Group  
Jim Tutton, Washington Trucking Association  
Jim Vance, University of Puget Sound

**APPENDIX 3. WASHINGTON POLICY SHIFTS TO SUSTAINABILITY  
(SEPARATE ATTACHMENT)**