University of Oregon

Campus Tree Plan

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1999-2000 Development Policy, Implementation and Transportation Subcommittee
of the Campus Planning Committee
Campus Planning and Real Estate
University of Oregon
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Revisions include solely editorial and typographical corrections to clarify
the original intent of the document and to reference the 2005 Campus Plan and
the 2008 Campus Heritage Landscape Plan.

Cover Photo: Memorial Quadrangle c. 1950.
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Available on-line at http://uplan.uoregon.edu/.
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1.0 Introduction/Purpose

The campus’s physical landscape is an integral part of the university’s mission. The most essential, long-term component of the landscape is the tree canopy.

The Campus Tree Plan describes the intent and implementation of the patterns and policies contained in the 2005 Campus Plan and the Sustainable Development Plan, related to tree management. In particular, this plan specifically addresses the intent of the “Campus Tree” pattern which reads as follows:

**Campus Trees**
The UO campus is an arboretum and a tree identification classroom. Not only are there many unusual trees, memorial trees, and otherwise special trees, but trees also play an important part in the formation of open spaces (for example, by creating edges). Building projects often are considered for sites that are occupied by trees, setting up a conflict between programmatic and aesthetic needs.

**THEREFORE:** Whenever possible, build in ways that preserve or relocate trees. If any trees must be removed, follow the requirements of the university’s Campus Tree Plan.

The Sustainable Development Plan recommends a series of approaches and examples to implement this pattern, including the preparation of a campus tree management plan.

To ensure that campus trees remain a vital part of the campus landscape, the university must:
- Ensure that the protection and management of a healthy canopy of trees are priorities.
- Maintain a balance of sunny and shady outdoor spaces.
- Enhance the relationship of the tree canopy to the built environment.
- Use the canopy of trees to help unify the campus and give a sense of cohesiveness.
- Acknowledge the important environmental role of trees.
- Connect the campus trees to the university’s educational mission.
- Develop a plan that is adaptable and responsive to change but also preserves the campus’s historic character.
- Maintain a consistent approach.

This plan addresses these issues in the following sections. As with the Sustainable Development Plan and Campus Plan, this plan establishes design-oriented policies rather than a “fixed” plan, which is important for a constantly changing landscape.

The process for developing the plan is described in Appendix G.
1.1 Why Now?

The need for a Campus Tree Plan has increased as new development has begun to test the edges of desired campus density. Although great efforts have been made to preserve existing trees, this is not always possible. Therefore, it is essential to have policies in place that define how to replace lost trees in a way that will preserve the campus tree canopy as well as preserve the campus’s sunny spaces. This plan provides such guidance.

In addition, the campus tree canopy has reached a level of maturity for which proactive measures are necessary to perpetuate a healthy and diverse tree canopy. This plan contains patterns addressing tree siting and selection. More detailed information is provided for the designated open spaces (as defined by the Campus Plan) to help define which areas should be preserved as we know them today, which areas should be restored to an earlier design, and which areas should be altered. The “Looking Forward” section describes the next steps to take to enhance this plan.

1.2 The Value of Trees

In order to define the desired tree canopy and management approach, one must consider the full range of benefits trees provide to the campus—aesthetic, environmental, educational, historical, and psychological. The multiple benefits of trees have been thoroughly documented by others and are summarized below:

Aesthetic: Trees are a primary character-defining element of the campus landscape. They enhance the aesthetics of any campus experience by defining open spaces and views, shielding unwanted noise, and providing shady areas to sit. Seasonal changes provide an ever-changing landscape, which accents the campus infrastructure and the architectural design of each building.

Environmental: The Planning and Design Guidelines for Air, Water, and Urban Forest Quality in Neighborhood Development, prepared by the University of Oregon Center for Housing Innovation (1999) documents the following benefits provided by trees. When thoughtfully placed, trees reduce summer energy use by shading buildings and parking lots and by cooling the air temperature through evapo-transpiration. Heavy canopy trees can block up to 95% of incoming radiation. Evapo-transpiration, the process by which plants release water vapor, utilizes heat energy, increases humidity, and results in a net heat loss throughout the day (Spirn, 1984). A single tree can transpire up to 100 gallons of water a day during the growing season. This has the same effect as running five average air conditioners for 20 hours (EPA, 1992).

Trees reduce storm water drainage by capturing rainfall in the tree canopy and root system. The root systems also control erosion by stabilizing soil conditions, and reduce water pollution by filtering sediment.

Trees are also instrumental in reducing urban pollution. The process of photosynthesis enables trees to filter and store carbon and polluting gases, and filter significant amounts of particulates from the air.

In addition, trees provide habitat for urban wildlife supplying food and safe
havens, as well as critical nesting sites.

**Educational:** Trees provide unique educational opportunities in a campus setting. A diverse selection of trees is important for species identification and research associated primarily with landscape architecture and biology classes.

**Historical:** Trees associated with significant historical events related to the university enrich the campus environment. Historically significant trees help convey the history of the campus and define the collegiate character.

**Psychological:** A campus with trees is more desirable than those without trees, according to research noted in *Minnesota's Community and Urban Forests* (1990). Research has shown that the natural environment has a positive effect on individuals' health. Trees often help reduce the stress associated with urban settings by creating feelings of relaxation and well-being.

More detailed information about the benefits of trees on the University of Oregon campus is provided throughout the plan.

Double row of trees planted along 13th Avenue between Kincaid and University Streets, looking west (Fenton Hall on the right), c. 1920s.
2.0 Existing Policies/Management

Current university policies address tree management mostly in a broad sense and often as part of the overall landscape. Five primary documents address tree management on campus:

- **The University of Oregon Atlas of Trees, 2006**: This atlas is a comprehensive inventory of all trees on campus. It contains the following data for all trees: location, botanical name, variety, common name, species origin, family, century tree designation, and type (deciduous/conifer). The associated Atlas of Trees database maintained by the Campus and Grounds Division of Facilities Services contains the following additional data for all trees identified in the atlas: maximum height of typical growth, actual height, actual caliper, and actual spread. The atlas is available for loan through the University of Oregon Library System in the Architecture and Allied Arts Library, the Science Library, and in the Oregon Collection. It is also available for sale through the University of Oregon Bookstore and the Museum of Natural History.

- **Campus Plan, 2005**: The Campus Plan’s patterns and policies represent the comprehensive campus development framework upon which this campus tree management plan is based. Applicable patterns and policies have been integrated throughout this Campus Tree Plan. Available on-line at http://uplan.uoregon.edu/.

- **Sustainable Development Plan, 2000 (updated in 2005)**: This plan includes a series of patterns describing the intent and implementation of the Campus Plan’s “Sustainable Development” pattern. Refer to Appendix E for a complete summary of patterns and policies that address trees. Available on-line at http://uplan.uoregon.edu/.

- **University of Oregon Campus Heritage Landscape Plan**: These documents provide valuable information about the historic significance of campus landscapes. Available on-line at http://uplan.uoregon.edu/.

- **Area Diagnosis Studies**: Diagnosis Studies have been completed for a large portion of the campus. They provide a preliminary assessment of significant trees.

- **Facilities Services’ Tree Preservation and Protection Standards**: Standards for construction, including tree protection standards, are contained in the UO Construction Standards developed by Facilities Services.

In addition, the Conceptual Landscape Master Plan, prepared by professor Ronald Lovinger in 1984, provides some interesting concepts, although the university did not officially adopt the document. Numerous smaller studies related to specific areas and projects on campus also incorporate tree-management concepts. Such studies serve as useful reference tools when determining appropriate actions for specific areas of campus.
3.0 General History and Existing Conditions

3.1 Brief History

Since the university’s inception, trees have played an important role in defining its physical character. Many individuals and groups have contributed to the creation of the tree canopy we enjoy today. When Deady Hall was built in 1876, it was situated on a barren knoll in a treeless pasture, with the possible exception of two Oregon White Oaks known as the Condon Oaks (these trees were later adopted by the classes of 1897 and 1900). Students initiated the first tree plantings in 1883 as part of a beautification effort, but the majority of the trees, mostly cedars, did not survive the following dry season. The next year, the university janitor carried out a more successful planting effort in what is considered the northwest portion of campus today (including the Old Campus Quad and west to Kincaid Street). Under contract from the regents, the janitor was paid per tree and only if it survived. These trees, including firs, cedars, maples, and palms, constituted the canopy of trees for this portion of campus for many years. The big-leaf maple near the southeast corner of Deady Hall is the sole survivor of this planting effort.

At the end of the century, an additional 100 pines, firs, cedars, and maples were brought in from the surrounding hills by Dean John Straub and planted on campus. Some of the trees were planted in formal rows on either side of the entrance walk leading from Kincaid and 12th Avenue to Deady Hall, but most were planted in a rather casual arrangement surrounding Deady and Villard Halls and in the Old Campus Quadrangle.
As the campus grew, Ellis Lawrence’s 1914 campus plan and subsequent plans established the current framework of interconnected quadrangles, malls, and axes. Over time, trees were planted to define these open spaces. In the mid-thirties, many trees were planted using funds provided through the Works Progress Administration.

In addition, the campus tree collection expanded through property acquisition. In particular, the Stafford House property (currently Straub Hall Green) and the Collier House property both had significant trees planted at the times of acquisition.

By the time the devastating Columbus Day storm hit in 1962, the campus tree canopy had reached a level of maturity that defined the quintessential character of the central campus as we know it today, with many large-canopy species. Unfortunately, a great number were blown down during the storm—some of the oldest and largest—leaving large, open spaces in the central campus area.

Old Campus Quad after the 1962 Columbus Day storm (Fenton Hall is in the background).

In 1976, a project called “100 Years—100 Trees” was initiated as part of the University of Oregon’s “Centennial Year” celebration. The project, co-sponsored by the Women’s Club and the UO Centennial Council, far surpassed its original goal of 100 trees with a total of 450 planted between 1976 and 1983. A variety of tree species were planted as part of this project, including special varieties to enhance the university’s collection of educational trees.
The Memorial/Honorarium Tree program has also helped maintain the campus tree canopy. In addition, landscaping projects associated with more recent development projects have resulted in the addition of hundreds of trees. With years of effort, the density of trees on campus has greatly increased since the first plantings on the barren knoll.

For more information, refer to:

- University of Oregon Campus Heritage Landscape Plan documents - 1.0 Landscape Preservation Guidelines and Description of Historic Resources and 4.0 Survey of Landscape Areas;
- 1980 Trees of the Oregon Campus by George Jette; and
- University of Oregon Atlas of Trees updated by Campus Planning & Real Estate in 2006.

### 3.2 Summary of Current Conditions

There are approximately 3,500 trees on the contiguous campus (refer to Appendix A for a map of the tree canopy). As mentioned previously, the overall density of trees on campus has greatly increased since the first plantings on the barren knoll. Even in the last two decades, as development has escalated, the number of trees has increased. In 1980, when the first comprehensive tree atlas was completed, there were 2,458 trees on the main campus (excluding the area north of Franklin Boulevard and the area east and south of Agate Street and 17th Avenue respectively) compared to 2,571 trees in 1996. Since 1994, large development projects on campus, such as the Knight Law Center and the Student Recreation Center, have resulted in an additional increase in the number of trees on campus.

In certain areas, however, such as the closed portion of 13th Avenue and, to a lesser degree, the Collier House property, some of the originally planted trees have been lost and not replaced. In addition, some of the older, established areas of campus, including the Old Campus Quad and Straub Hall Green, contain numerous trees in decline. Better identification of hazard trees has resulted in an increase in their removal in recent years. The lack of replacement of the large-canopy trees in the areas mentioned above and the trend toward smaller species in newly developed areas are of particular concern.

The general characteristics of the existing tree canopy are summarized in Appendices C and D. For detailed information the University of Oregon Atlas of Trees (2006) is an excellent resource for identifying the existing trees on campus.
4.0 Establishing Project Responsibilities for Trees

4.1 General Requirements

This section defines the responsibilities each project must adhere to for tree replacement and planting. The guidelines focus on a qualitative versus a quantitative approach based upon the policies and patterns contained in the following documents:

1. Campus Plan, 2005
3. University of Oregon Campus Heritage Landscape Plan 1.0 Landscape Preservation Guidelines and Description of Historic Resources and 4.0 Survey of Landscape Areas.
4. Area Diagnosis Studies
5. Facilities Services’ Tree Preservation and Protection Standards are contained within the UO Construction Standards developed by Facilities Services.

Refer to page 4 for a description of each of these documents.

The Campus Plan states that:

(f) In approving a schematic design that requires the removal of trees or significant plant materials, the Campus Planning Committee shall be satisfied that alternative designs not involving the removal have been prepared and carefully explored. Refer to the Campus Tree Plan.

(g) Trees that help form or reinforce the identity of Designated Open Spaces and Pathways are significant trees and are to be afforded extra care. Refer to “Policy 12: Design Area Special Conditions” (page 69) and the Campus Tree Plan.

(h) When proposed development may negatively impact trees, it is important to define the significance of the affected trees. Every effort should be made to preserve significant trees. Significant trees include those that have historical association, have educational value, are an excellent species example, or are designated in memory or in honor of an individual. (Refer to the Campus Tree Plan for a complete description.)

The flow chart on the following page incorporates these Campus Plan requirements into a step-by-step process that every project must follow.
Every development project on campus must adhere to the steps covered in the following flow chart:

**4.1.1 Table: Decision Tree**

Does the proposed project impact any trees (e.g. tree removal and/or development near the critical root zone or canopy)?

**NO**

**YES**

Is tree removal anticipated?

**NO**

**YES**

Consult with an arborist or urban forester and incorporate recommendations into the construction documents and management plan for the project.

Are any of the trees considered significant? To determine this, refer to “Defining Significant Trees” (page 10):
- Trees with historic value
- Trees Educational Value
- Memorial/Honorarium Trees

**NO**

**YES**

Make every effort to redesign the proposed development to preserve trees with significance.

Is the Campus Planning Committee satisfied that alternative designs that do not involve the removal of trees were prepared and carefully explored (Campus Plan)? If removal is unavoidable, transplant significant trees where possible.

**NO**

**YES**

Are any of the significant trees proposed for transplanting or removal memorial trees?

**YES**

Ask the University of Oregon Foundation to consult with the donor regarding the proposed action. In the event that the donor cannot be identified or located, the Foundation shall be asked to advise with respect to the proposed removal or relocation.

Are any of the significant trees proposed for removal important educational trees?

**YES**

Replace the specific species as part of the total canopy coverage replacement requirement.

**NO**

Continue to explore alternatives.

Replace the combined tree canopy* proposed for removal to the degree possible while adhering to:
- the “Long-Lived Tree Sites” pattern (page 13, 15)
- the “Tree Replacement Strategies” pattern (page 13, 16)
- all other Tree Siting and Selection Patterns (page 11)
- Tree Protection Requirements (page 10)

**PROCEED WITH THE PROJECT**

* “Combined tree canopy” refers to the total projected canopy of all affected trees at full maturity.
4.2 Tree Protection During Construction

The Sustainable Development Plan’s “Healthy Ecosystems” pattern states that all development will protect the existing ecosystems to the greatest extent possible (refer to the document for the complete pattern text). To implement this pattern, every effort shall be made to preserve the integrity of the site, in particular trees, significant plant materials, and topsoil. It is important to remember that half of a tree’s biomass is underground, so it is essential to protect the root zone by allocating adequate space and establishing suitable soil conditions.

Tree Protection Requirements

All construction projects must comply with the Facilities Services’ Tree Preservation and Protection Standards which are contained within the UO Construction Standards developed by Facilities Services. These standards describe the procedures and documentation that must be contained in all project specifications/drawings to protect existing trees and plants during construction.

4.3 Defining Significant Trees

When proposed development may negatively impact trees (e.g., adjacent construction and/or removal), it is important to define the significance of the affected trees. If a tree meets one or more of the characteristics stated below, every effort should be made to preserve it. The steps noted in the tree responsibility flow chart should be followed.

The following characteristics should be considered when determining the significance of a tree:

- Significant Trees (or others with historic value) — The Designated Open Space descriptions on pages 19 - 37 and the 2005 Campus Plan Policy 12: Design Area Special Conditions identify significant trees that are to be afforded extra care. Other trees associated with significant events related to the university’s history deserve special attention as well. Refer to 4.0 Survey of Landscape Areas conducted as part of the Campus Heritage Landscape Plan.

- Educational Value — As stated in the Campus as Arboretum pattern, the university campus is considered an arboretum. The plant materials on the campus not only have an aesthetic significance, but also constitute a valuable teaching resource, particularly but not exclusively in biology and landscape architecture. For this reason, the academic or instructional value of individual materials is to be determined before existing vegetation is removed or relocated. Trees that are excellent examples of a particular species due to their size and condition or are the sole examples on campus also deserve special consideration. Refer to the Designated Open Spaces descriptions on pages 19 - 35 and area diagnosis studies.

- Memorial/Honorarium Trees — Trees designated in memory or in honor of an
individual are subject to special care. The University of Oregon Foundation should be asked to consult with the donor regarding the proposed action. If the donor cannot be identified or located, the Foundation shall be asked to advise with respect to the proposed removal or relocation. Records of memorial plantings are maintained by the Foundation and by Facilities Services.

5.0 Tree Siting and Selection Patterns

As stated in the 2005 Campus Plan:

**Tree Places**

*When trees are planted or pruned without regard for the special places they create, they are as good as dead for the people who need them.*

THEREFORE: Plant trees according to their nature, to form enclosures, avenues, squares, groves; plant single-spreading trees toward the middle of open spaces. Shape the nearby buildings in response to trees, so that the trees themselves and the trees and buildings together form places people can use. (See the *Campus Tree Plan.*)

The following patterns apply to all tree siting and management activities on campus. All other applicable patterns and policies within the *Campus Plan* and the Sustainable Development Plan should be consulted as well.
# Campus Plan Patterns

## 5.1 Existing Campus Plan Patterns

<table>
<thead>
<tr>
<th>Campus Plan Pattern</th>
<th>Pattern Description</th>
<th>Typical Tree Canopy Character - an interpretation of how they relate to the typical tree character of campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessible Green</td>
<td>Maintain an open space in proximity to all buildings.</td>
<td>Trees define the space and provide a mix of sunny and shady spots.</td>
</tr>
<tr>
<td>Activity Node</td>
<td>Create small centers of activity separated by quiet space.</td>
<td>Usually a limited number of trees define spaces (thus preventing interference with activities).</td>
</tr>
<tr>
<td>Campus Quadrangles and the Historic Core</td>
<td>Make large public open spaces between buildings with entrances that open up to and cross axes that flow through them.</td>
<td>Trees define the open space and walkways.</td>
</tr>
<tr>
<td>Local Sports</td>
<td>Scatter facilities for physical exercise around campus.</td>
<td>Limited use of trees is appropriate to surround and define the perimeters.</td>
</tr>
<tr>
<td>Main Entrance</td>
<td>Make main entrances to buildings distinctive and easily identifiable from principal approaches.</td>
<td>Trees frame entrances without blocking views or hindering direct access.</td>
</tr>
<tr>
<td>Open-space Framework</td>
<td>Maintain the organization of quadrangles, malls, pathways and other landscaped areas.</td>
<td>Trees form and reinforce the identity of open spaces.</td>
</tr>
<tr>
<td>Positive Outdoor Space</td>
<td>Place and form buildings to define and partially enclose outdoor space.</td>
<td>Trees further define the space and create enclosure.</td>
</tr>
<tr>
<td>Promenade</td>
<td>Develop a major pedestrian way, centrally located with main attractors at each end, to link principal activity nodes.</td>
<td>Trees further define the walkways and soften the hardscape.</td>
</tr>
<tr>
<td>Public Outdoor Room</td>
<td>Make outdoor places with some enclosure, mark them.</td>
<td>Trees further define the space and shade portions of outdoor seating areas for summer use.</td>
</tr>
<tr>
<td>Quiet Backs</td>
<td>Connect buildings to a quiet space, removed and buffered from adjacent sources of noise.</td>
<td>Usually trees are informally arranged to provide intimacy and create seating areas. These areas may provide an opportunity for experimental or non-traditional landscaping ideas, such as native plantings.</td>
</tr>
<tr>
<td>Shielded Parking</td>
<td>Screen parking lots from view by landscaping, walls, or topographic feature.</td>
<td>Trees and shrubs shield views of parking from adjacent uses and soften and shade the hardscape.</td>
</tr>
<tr>
<td>South Facing Outdoors</td>
<td>Design buildings to create south-facing outdoor spaces whenever possible.</td>
<td>Limit the number of trees in these intentionally sunny areas. Trees define east, west, and north sides.</td>
</tr>
<tr>
<td>University Streets</td>
<td>front major campus activities on public streets that are essentially pedestrian in nature; connect to new buildings and these streets.</td>
<td>Trees primarily in a formal arrangement define the axes and soften and shade the hardscape.</td>
</tr>
</tbody>
</table>
Campus as Arboretum

The university campus is considered an arboretum. Plant materials on the campus, trees in particular, constitute a valuable teaching resource, particularly but not exclusively, in biology and landscape architecture.

Therefore: Consider the instructional benefits when selecting trees to replace existing ones or to establish new plantings (refer to the definition of Educational Value on page 10).

5.2 Tree Plan Patterns

5.2.2 Table: Summary of Tree Patterns

<table>
<thead>
<tr>
<th>Tree Pattern</th>
<th>Pattern Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus as Arboretum</td>
<td>Consider instructional benefits when selecting trees to replace existing ones or to establish new plantings.</td>
</tr>
<tr>
<td>Canopied Parking</td>
<td>Maximize the tree canopy over surface parking lots, with a minimum of 10%. Ensure that adequate planting space is provided.</td>
</tr>
<tr>
<td>Designated Open Spaces</td>
<td>Afford extra care to trees that reinforce the system of quadrangles, malls, and open spaces.</td>
</tr>
<tr>
<td>Environmental Mitigation</td>
<td>Select tree species and locations that provide maximum environmental benefits.</td>
</tr>
<tr>
<td>Healthy and Vital Canopy</td>
<td>Strive for a sustainable tree canopy that has an uneven age structure and diverse tree species. Protect trees during construction.</td>
</tr>
<tr>
<td>Large-canopy Trees</td>
<td>Replace lost large-canopy trees and consider planting a single large-canopy tree in lieu of smaller trees where appropriate.</td>
</tr>
<tr>
<td>Long-lived Tree Sites</td>
<td>Site trees where they will not interfere with future development to take full advantage of and encourage a long life span.</td>
</tr>
<tr>
<td>Outdoor Classroom</td>
<td>Preserve the open, sunny spaces required for outdoor “classrooms.”</td>
</tr>
<tr>
<td>Site Specific Conditions</td>
<td>Make sure the tree selection fits the environmental conditions. Protect or improve existing soil conditions during construction and make design and/or site condition adjustments.</td>
</tr>
<tr>
<td>Sunny/Shady Open Spaces</td>
<td>Preserve the current amount of non-canopied open spaces, which equals about 75-80%, by taking into consideration tree size, type, and placement.</td>
</tr>
<tr>
<td>Tree Replacement Strategies</td>
<td>Maintain a balanced tree population through an effective tree replacement program.</td>
</tr>
</tbody>
</table>
Canopied Parking

Parking lots represent a substantial amount of the impervious surface area on campus. They create a notable amount of unfiltered storm water run-off and create undesirable heat islands.

Therefore: Maximize the tree canopy over surface parking lots. Establish a minimum coverage of 10\%\(^1\) (assuming full canopy growth) whenever possible. Ensure that adequate planting spaces are provided and select species that provide a dense canopy coverage if possible.

Designated Open Spaces

The primary landscape characteristic of the University of Oregon is the open-space framework consisting of a system of quadrangles, malls, and other open spaces that are designated as significant by the Campus Plan. A major character-defining feature of these open spaces is the tree canopy.

Therefore: Preserve, complete, and extend the open-space framework as opportunities arise. Afford extra care to the trees that help form or reinforce the identity of these designated open spaces. Refer to the “5.1.1 Campus Plan Primary Open-space Patterns” table (page 12) and the “Designated Open Spaces: Existing and Desired Tree Canopy Character” section of this plan (page 17).

Environmental Mitigation

Trees provide many environmental benefits on campus by reducing energy use, storm water drainage, erosion, and water pollution. Trees also provide important wildlife habitat.

Therefore: Select tree species and locations that provide maximum southwest- and west-side shade for buildings, cool air temperatures through evapo-transpiration, control erosion by stabilizing soil conditions, reduce off-site water drainage through canopy and root system water retention, reduce water pollution by acting as sediment filters, and help establish bird corridors. (Also refer to the “Canopied Parking” pattern and the Sustainable Development Plan document.)

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\(^{1}\) Trees native to the Willamette Valley are not necessarily well suited to the micro conditions on campus. For example, most ponderosa pines are more suited to forested areas in higher elevations. There may be a subspecies known as the valley pine that is more suited to the valley floor, but it is not identified in the campus tree data. In addition, many native species, such as the Oregon white oak, are better suited in undisturbed sites, making them very difficult to transplant and establish them in a campus environment.
Healthy and Vital Canopy

A healthy, vigorous tree canopy is essential to perpetuate the character of the campus landscape and to strive towards a healthy ecosystem.

Therefore: Strive for a sustainable tree canopy that has an uneven age structure and diverse tree species. Minimize changes to site conditions for established trees, especially native species, and consider re-establishing original site conditions in areas that have been negatively altered (e.g., adjust the watering regime). Protect existing trees during construction (refer to the Tree Protection Requirements in the “Establishing Project Responsibilities for Trees” section, and the Sustainable Development Plan’s “Healthy Ecosystems” pattern).

When planting new trees, use native\(^2\) or well-adapted species when appropriate, while recognizing the importance of a variety of plant materials necessary for instructional use. Select species that are resistant to disease and insects. All newly planted trees should be the optimal size required (based on the species) to ensure survival.

Large-canopy Trees

Large-canopy trees, a distinguishing feature of the campus, are diminishing in number as the existing large trees continue to decline and as development results in open spaces that are not large enough to accommodate large trees.

Therefore: Replace lost large-canopy trees and consider planting a single large-canopy tree, rather than a series of smaller trees, where appropriate. Also, consider designing buildings and additions to provide adequate space for large-canopy trees (refer to the Sustainable Development Plan).

Long-lived Tree Sites

Trees take many years to become established. Once established, however, they provide a multitude of benefits over a long life span.

Therefore: Site trees where they will be less likely to interfere with future development. In general, designated significant open spaces shall have first priority for tree planting. This may include replacing trees in decline to perpetuate the desired tree-canopy character. If the proposed tree planting is part of a development project, refer to the “Establishing Project Responsibilities for Trees” section.

\(^2\)The city’s required parking lot canopy coverage at full growth equals approximately 5-10\% (depending upon the parking lot size). The coverage of a typical existing campus parking lot (assuming full canopy growth) ranges from 2-5\%; the current overall tree canopy coverage (not at full growth) of open space on campus is about 20\%. 

Campus Tree Plan
Page 15
**Outdoor Classroom** (also a *Campus Plan* pattern)

Many campus open spaces serve as vital “classrooms.” Many outdoor “classroom” functions require open, sunny spaces (e.g., sports fields, marching band practice areas, the urban farm, and informal outdoor classes).

Therefore: Preserve the open, sunny spaces required for outdoor “classrooms.” Always consider the use of the open space when selecting and placing trees. This may mean that it is not always possible to replant the total lost tree canopy caused by development (also refer to the *Campus Plan’s* description of Outdoor Classrooms).

**Site Specific Conditions**

Tree species vary as much as site conditions. Only half of each tree is visible, since root systems comprise as much biomass as above-ground portions.

Therefore: Make sure the species fit the localized environmental conditions. Consider compatibility with adjacent plantings (including irrigation needs), sight line and clearance requirements, planting area size and soil conditions, proximity to buildings, and ways to minimize disease and insect problems. Protect or improve existing soil conditions during construction and make design and/or site-condition adjustments to benefit trees’ needs.

**Sunny/Shady Open Spaces**

Residents of the Pacific Northwest value sunshine during the lengthy, cool, wet portion of the year. Sunshine allows outdoor areas to warm up and dry out, enabling greater use throughout the year. Shady spots are valued during the warm summer months. Summer-shaded buildings are also highly desirable to help cool interiors by blocking solar heat gain.

Therefore: Maintain a diversity of sunny and shady open-space areas on campus. Preserve the current amount of non-canopied open spaces which equals about 75 - 80% (includes all land except building footprints that is not covered by a tree canopy in the summer). Take into consideration tree size, type and placement. Adhering to this pattern may mean that it is not always possible to replant the total lost tree canopy caused by development.

**Tree Replacement Strategies**

Trees have a limited life span and will eventually enter a phase of decline.

Therefore: Maintain a balanced tree population through an effective tree replacement program. As a general practice, a tree should not be cut down
unless it is considered a hazard or it is located within a development site and meets the requirements of the “Establishing Project Responsibilities for Trees” section.

Trees planted to compensate for lost tree canopy due to new development should be located on the development site if possible (keeping in mind the “Sunny/Shady Open Spaces” pattern and all other tree siting and selection patterns). If this is not possible, work with the Campus and Grounds Supervisor to determine appropriate sites. First priority should be adjacent designated open spaces as appropriate (refer to the “Designated Open Spaces” pattern). Otherwise, trees should be planted elsewhere on campus if possible.

Tree replacement strategies should reflect the character of the open space. For example, tree replacement within a formal landscape design generally would not occur until a tree is considered a hazard. In an informal landscape design, however, it could be initiated prior to the required removal of deteriorating trees by interspersing young trees between them. This often makes informal landscape designs more sustainable.
6.0 Designated Open Spaces: Existing/Desired Canopy Character

This section includes descriptions of the existing and desired tree canopy character for each designated open space.

The primary landscape characteristic of the University of Oregon is the open-space framework (Designated Open Space pattern). As stated in the Campus Plan:

Policy 2: Open-space Framework
The University of Oregon campus is organized as a system of quadrangles, malls, pathways, and other open spaces and their landscapes. This organizational framework not only functions well, but serves as a physical representation of the University’s heritage.

As opportunities arise, the fundamental and historic concepts of the university’s open-space framework and its landscape shall be preserved, completed, and extended. All development projects shall follow the policy refinements below.

Trees are the primary character-defining features of these open spaces.

As noted in the “Designated Open Space” pattern, every tree that helps form or reinforce the identity of these designated open spaces should be afforded extra care. In addition, the “Long-lived Tree Sites” pattern gives priority to planting trees in designated open spaces. For this reason, this plan focuses on defining the desired character of the tree canopy for the bolded Designated Open Spaces (refer to map, 6.1.1. Designated Open Spaces on page 19).

Other Open Spaces

Focusing on the designated open spaces does not mean that the tree canopy in other open spaces does not serve a valuable purpose. The patterns identified in the “General Tree Siting and Selection Patterns” should be considered in all instances. Special conditions for specific landscaped areas are identified in the Campus Plan Policy 12: Design Area Special Conditions. In addition, specific uses are defined (e.g., playing field) and special designations are identified (e.g., listings on the National Register of Historic Places) in these analytical area descriptions.

More detailed information about the desired character of the other campus open spaces should be prepared when time and resources allow.

6.1 Open-space Framework

Open spaces on campus vary from large to small and are designed for a variety of uses as defined by Campus Plan patterns addressing open spaces. Refer to Table 5.1.1 on page 12 that defines the typical character of the tree canopy for open spaces as defined by the Campus Plan patterns.
6.1.1 Map: Designated Open Spaces

Quadrangles and Malls (p. 21)
- m. Memorial Quadrangle
- f. Old Campus Quadrangle
- q. Women’s Memorial Quadrangle

Axes and View Corridors (p. 23)
- k. 13th Avenue Axis
- z. 15th Avenue Axis
- ii. 17th Avenue Axis

Greens (p. 32)
- i. Agate Entrance Green
- j. Agate Hall Green
- l. Amphitheater Green
- ee. East Campus Green
- w. Gerlinger Entrance Green
- x. Gerlinger Field Green
- y. Straub Hall Green
- bb. Glenn Starlin Green
- u. Humpy Lumpy Green
- cc. Kincaid Green
- t. Living-Learning Center Green
- b. Millrace Green

Refer to East Campus Open Space Framework for development of open spaces in this area.

Descriptions of the Designated Open Spaces in **bold** are on the following pages.
In addition, page 43 contains a table indicating which Campus Plan patterns and Tree Siting and Selection Patterns are applicable to each designated open space. This information should be the used as a guide when implementing future tree-planting efforts.

The characteristics of the tree canopy within the open-space framework are as follows:

**Quadrangles & Malls** - Formal and informal arrangements of trees are used to define quadrangles and malls that are protected from development because they are identified in the Campus Plan as designated open spaces. Refer to page 21 for a description of desired tree canopies in individual quadrangles and malls.

**Axes & View Corridors** - Generally, formal arrangements of trees are used to enhance views and/or delineate axes. These axes are protected from development because they are identified in the Campus Plan as designated open spaces. Refer to page 23 for a description of desired tree canopies in individual axes and view corridors.

**Greens** - Generally, informal arrangements of trees are used to enhance views and/or create shady seating areas where appropriate. In some cases greens may share many aspects of quadrangles while others function more like plazas. These greens are protected from development because they are identified in the Campus Plan as designated open spaces. Refer to page 32 for a description of desired tree canopies in individual greens.

**Identified Significant Trees** - The Campus Plan identifies specific trees that are considered historically or otherwise significant in Policy 12: Design Area Special Conditions and are noted in the following open-space descriptions.

There are other significant trees on campus, however. Refer to the “Defining Significant Trees” section for a full description of criteria to consider when determining whether a tree is significant.
6.2 Designated Open Spaces: Quadrangles and Malls

Memorial Quadrangle

Existing Character: This quadrangle is the academic center of campus and receives heavy pedestrian traffic. It is listed on the National Register of Historic Places and is laid out in a formal design consisting of an open, sunny lawn lined with eight pyramidal English oaks at the southern end, three English oaks and a tulip tree at the intersection of the Johnson Lane axis, and additional large-canopy trees along the outside edge of an open, sunny lawn at the northern end. The Campus Plan specifically notes the English oaks as significant trees, which help form the identity of the view corridor.

Existing Condition: The trees are generally in good condition.

Existing Canopy Coverage: about 35%

Desired Character: The existing character of the area should be preserved. The English oaks are to be afforded extra care. The Campus Plan states that a program for replacing these trees as they reach the end of their natural life cycles will be needed in order to preserve the area’s existing character.

Old Campus Quadrangle

Existing Character: This quadrangle is an informal arrangement primarily of conifers with shrub plantings interspersed in a lawn setting. Historically, this quadrangle was the main entrance to the university, and it originally had formal plantings of roses along the pathways. Since then, it has become a quiet, park-like setting criss-crossed with pedestrian pathways. Portions of the quadrangle are within the Deady Hall and Villard Hall National Landmark boundaries and the southern boundary crosses the 13th Avenue axis. The Campus Plan has identified the following trees as significant: the European linden located east of Villard Hall (1895 class tree), the big-leaf maple near the southeast corner of Deady Hall (the sole survivor of the original campus planting of 1884), and the threadleaf Japanese maple near 13th Avenue northeast of Johnson Hall (because of its size and unique character).

When Deady Hall was built in 1876, it was situated on a barren knoll in a treeless pasture, with the possible exception of the remaining Condon oak prominently situated on the north side of the designated open space adjacent to Franklin Boulevard (this tree was later adopted by the class of 1897). It is also identified in the Campus Plan as significant.

An inventory of important educational trees has not been completed for this area.
Old Campus Quad, looking north from Deady Hall roof, c 1900?

**Existing Condition**: Many of the conifers are in a state of decline due to old age, damage suffered during the Columbus Day storm (one is considered a habitat tree), and overwatering (particularly incense cedars and ponderosa pines). The Condon oak is also in a state of decline due to old age, major wounds, fungal growth, and overwatering. Some trees were planted in very close proximity to the historic buildings and have outgrown their space.

**Existing Canopy Coverage**: about 30%

**Desired Character**: The existing character of the area should be preserved and enhanced. High priority should be placed on initiating a replacement program and adjusting the watering and planting regime so that the trees are not overwatered. Further research is necessary to determine an appropriate replacement program for trees crowding historic buildings. The view corridor from “The Pioneer Mother” through the Johnson Hall lobby to “The Pioneer” and the view north to the Millrace and the river should be preserved. When selecting locations for new tree plantings, opportunities to better shade the west sides of Allen Hall and Lawrence Hall should be considered. The trees identified by the *Campus Plan* as significant should be afforded extra care.

Also refer to the preservation plan for the Old Campus Quadrangle contained in 2.0 Site Preservation Plans and Guidelines, prepared as part of the Campus Heritage Landscape Plan.
Women’s Memorial Quadrangle (formerly Pioneer Axis)

Existing Character: This pedestrian quadrangle incorporates the view corridor from “The Pioneer Mother” through the Johnson Hall lobby to “The Pioneer.” The Women’s Memorial Quadrangle is listed on the National Register of Historic Places. This grassy area has a traditional campus character with informal plantings of mature, large-canopy shade trees.

An inventory of important educational trees has not been completed for this area.

Existing Condition: Many of the trees in this area are mature; some of them are in a state of decline (particularly the pin oaks). Scarlet oaks have been used as a replacement tree.

Existing Canopy Coverage: about 46%

 Desired Character: Some of the existing trees associated with this open space are not located within the designated open space and may be subject to removal when future development takes place. An effort to plan for this outcome by planting trees within the designated axis (or adjacent areas that are less likely to be affected by future development such as the Johnson Lane axis) would help alleviate this potential loss. There is an opportunity to better shade the west side of Hendricks Hall. The view corridor from “The Pioneer Mother” through the Johnson Hall lobby to “The Pioneer” should be preserved as noted in the Campus Plan.

Also refer to the preservation plan for the Women’s Memorial Quadrangle contained in 2.0 Site Preservation Plans and Guidelines, prepared as part of the Campus Heritage Landscape Plan.

6.3 Designated Open Spaces: Axes and View Corridors

13th Avenue Axis: Between Kincaid Street and University Street

Existing Character: This primary axis has heavy pedestrian and bike use (only restricted service traffic is allowed). It has a traditional street design, and is lined on either side with a double row of primarily large-canopy trees including big-leaf maples, London plane trees, and catalpas. The axis partially overlaps the Memorial Quadrangle National Register boundary and the Collier House City Landmark site. The character of the Collier House site is similar to the rest of the street with the exception of a group of mature conifers.

The Campus Plan has identified the threadleaf Japanese maple northeast of
Johnson Hall (a National Register building) as significant because of its size and unique character.

An inventory of important educational trees has not been completed for this area.

**Existing Condition:** One large conifer grand fir and a big-leaf maple in front of the Collier House were lost during a storm in 1999. Some other mature big-leaf maples have been lost in recent years in front of Gilbert Hall and others are in decline.

**Existing Canopy Coverage:** about 32%

**Desired Character:** Efforts to shade the street surface, particularly to replace the missing large-canopy trees, are a priority. However, care should be taken not to interfere with adjacent sunny open spaces, such as the Memorial Quadrangle and the plaza in front of Lillis. Efforts to change the character of the street to make it more bike-and-pedestrian-friendly are also encouraged. For example, the Lillis Business Complex includes new tree planting areas within the original street paving which provide adequate space to plant additional large-canopy trees that soften the original hardscape while retaining adequate pedestrian space on the sidewalks. Placement of trees should not block the ground-level view from Dads’ Gates to the Knight Library (refer to Dads’ Gates Axis).

The historic character of the Collier House site should be considered when selecting and placing trees. In addition, the view corridor from “The Pioneer Mother” through the Johnson Hall lobby to “The Pioneer” should be preserved. The threadleaf Japanese maple should be afforded extra care.

Refer to “University Street Axis” for information about the intersection of 13th Avenue and University Street.

**13th Avenue Axis: Between University Street and Moss Street**

**Existing Character:** This portion of the 13th Avenue axis is open to automobiles and has the character of a typical tree-lined street. The city owns the portion between Agate Street and Moss Street; the university owns the rest. The intersection of 13th Avenue and Agate Street serves as the primary entrance to the university. Large-canopy deciduous trees, consisting primarily of red oaks and pin oaks interspersed with other deciduous trees, informally line the street. A second row of mixed species enhances the tree canopy and identifies secondary axes and building entrances.

This area contains important educational trees, including the Norway spruce near the EMU’s north entrance and the Douglas fir located near the EMU’s northeast corner. The *Campus Plan* identifies the latter tree as significant because
it grew from a seed that was among four fir seeds carried to the moon aboard Apollo XIV in 1971 by Astronaut Stuart Roosa. In 1978 the seedling was planted where Willamette Hall now stands; it was transplanted in 1987 to accommodate construction of the additions to the Science Facilities Additions and Alterations project.

**Existing Condition:** Although the existing trees are generally in good condition, a few are in decline. The health of the trees in front of Willamette Hall was damaged by past construction. The Italian stone pine tree in front of Volcanology was recently removed due to poor health, and many of the pines across from Volcanology, in front of the EMU, are in poor condition. Heavy pedestrian traffic in the critical root zone of the northern red oaks north of the EMU has compacted the soil, but this does not appear to have significantly affected the trees’ health because the conditions have remained relatively constant throughout the trees’ life.

**Existing Canopy Coverage:** about 30%

**Desired Character:** The *Campus Plan* supports design strategies that encourage bikes and pedestrians and discourage through auto traffic. Further enhancement of the tree canopy is desirable to improve the appearance of the primary gateway to the university, to help connect this part of the 13th Avenue axis to the central part of the axis, and to shade the street surface. For example, the Eastgate Conceptual Study (between Oregon Hall and the University Health and Counseling Center) proposes a possible street median planted with trees. Opportunities exist for additional tree plantings between Agate Street and Moss Street. Future plantings should maintain the open, sunny lawn area at the southeast corner of the Agate Street and 13th Avenue intersection. Special care should be afforded to significant trees identified in the *Campus Plan*, and research should be conducted to identify remedies for the poor condition of existing trees. The recently removed Italian stone pine tree provides an opportunity to install a large-canopy tree in its place to shade the west and south sides of Volcanology and the street surface. The pine was an educational tree so the same species should be replaced elsewhere on campus.

Please refer to “University Street Axis” for more information about the 13th Avenue and University Street intersection.

**Agate Street Axis**

**Existing Character:** This plan addresses only the portion of the axis south of Franklin Boulevard that serves as the primary entrance to the university. The northern portion (Riverfront Parkway) is governed by the Riverfront Research Park Master Plan. The portion of the axis south of Franklin Boulevard is owned by the city and has the character of a typical tree-lined street: it is lined in a
formal arrangement with large-canopy deciduous trees consisting mostly of American sweetgums, scarlet oaks and American elms, interspersed with other deciduous trees. The canopy is enhanced by a tree-lined median between 13th Avenue and 15th Avenue.

Existing Condition: The existing trees are generally in good condition.

Existing Canopy Coverage: about 29%

Desired Character: Further enhancement of the tree canopy is desirable to improve the appearance of the primary gateway to the university, to help connect east campus to central campus, and to shade the street surface. There is also an opportunity to better shade the west side of the Hamilton residence hall complex. New trees should not interfere with the adjacent, intentionally sunny Humpy Lumpy Green or the lawn area at the southeast corner of the Agate Street and 13th Avenue intersection. The motorist’s view of the pedestrian crossing should not be impeded. Although the designated axis does not extend south of 15th Avenue, more street trees could be added along Agate Street towards Agate Hall.

Dads’ Gates Axis

Existing Character: This axis connects Dads’ Gates to 13th Avenue and is bisected by the Lillis Business Complex atrium space. The portion north of Lillis is poorly defined with the exception of two big-leaf lindens and two European beeches flanking Dad’s Gates. It consists partly of a service drive and partly of grassy, open space interspersed with informal plantings of conifers. This northern portion is partially within the Deady Hall National Landmark boundary and is bisected by the Deady Hall Walk Axis, clearly delineated with two rows of Douglas firs. The Campus Plan identifies three class trees of special significance in the area north of the Deady Hall Walk, a giant cryptomeria (class of 1879), a giant sequoia (class of 1880) and a California laurel (class of 1898). The California laurel, located in front of Robinson Theatre, died this past decade and was replaced.

The portion of the axis south of Lillis is primarily defined by Peterson Hall to the west and Gilbert Hall to the east rather than by trees. Mature trees in this area were lost due to poor heath and hazard conditions.

The pedestrian use of this axis has substantially increased with the completion of the McKenzie Hall project, the Lillis Business Complex project and the EmX Bus Rapid Transit station at Dads’ Gates.

An inventory of important educational trees has not been completed for this area.

Existing Condition: Many of the trees in this area are large, mature trees in relatively
good condition. Some, however, were in poor condition and were removed as part of the Lillis Business Complex project. In addition, some smaller trees were moved due to this construction including a bald cypress, redwood ash, and dogwood.

**Existing Canopy Coverage:** 30%

**Desired Character:** The northern portion of the axis should be better defined with a formal tree planting arrangement north of the Deady Hall Walk Axis. This would also help to shade the paved access road. Placement of trees should not block the ground-level view from Dads’ Gates to the Knight Library or the view of Robinson Theatre from 11th Avenue. To preserve the informal, sunny open space, no new trees north of Lillis should be planted.

The mature yellow buckeye south of Lillis Hall was preserved during the Lillis Complex project. The relatively small, formal courtyard space south of Lillis Hall should remain open as an intentionally sunny, south-facing spot. If possible, however, shading the west face of Gilbert Hall is desirable. In addition, the tree canopy should be restored along 13th Avenue in front of the Lillis Business Complex.

A replacement program to anticipate the decline of the numerous mature trees and maintain the desired canopy character along this axis is necessary. The remaining class tree, the giant sequoia identified in the *Campus Plan*, deserves special care.

Also refer to the preservation plan for the Dads’ Gates Axis contained in 2.0 *Site Preservation Plans and Guidelines*, prepared as part of the Campus Heritage Landscape Plan.

**Deady Hall Walk Axis**

**Existing Character:** This axis leads from Deady Hall to Kincaid Street and is clearly delineated by two formal rows of Douglas firs bisected by the Dads’ Gates axis. The *Campus Plan* specifically notes these Douglas firs as significant trees that help form or reinforce the identity of the view corridor. This axis is partially within the Deady Hall National Landmark boundary.

**Existing Condition:** The Douglas firs represent a range of ages; some of the older ones are in a state of decline, and one is missing. Concerns include overwatering and root compaction from an increase in pedestrian activity.

**Existing Canopy Coverage:** about 36%

**Desired Character:** The existing character of the area should be preserved.
Identified in the *Campus Plan* as significant trees, the Douglas firs are to be afforded extra care. A program for replacing these trees as they reach the end of their natural life cycles will be needed in order to preserve the area’s existing character. The Lillis Business Center project replaced the missing Douglas fir. Solutions to eliminate compaction and overwatering should be researched.

**Emerald Axis**

*Existing Character:* This narrow pedestrian axis, extending from 15th Avenue north to 13th Avenue, bisects the Promenade. It is partially lined with American sweetgums and other deciduous large-canopy trees. The pathway runs between the Living-Learning Center and Earl Hall and passes through an intentionally sunny, grassy area designed to provide outdoor activity space for special events and informal recreational space for students residing in the dormitories.

*Existing Condition:* The trees in this area are generally in good condition. Some of the pines in the adjacent area near the EMU are in a state of decline.

*Existing Canopy Coverage:* about 38%

* Desired Character:* The existing character of the area should be preserved and enhanced, ensuring that the activity area remains open and sunny.

**Gallery Walk Axis**

*Existing Character:* This axis stretches from the railroad overpass to Franklin Boulevard and is loosely defined by a row of ponderosa pine on the east side of the walkway/bike path adjacent to the art studios. Further definition is provided by the newly planted row of zekovas on the west side, adjacent to the Zebrafish Stock Center.

The portion south of the Millrace is adjacent to Franklin Boulevard and bisects a parking lot. It is completely undefined physically as an axis, although pedestrians and bicyclists use it.

An inventory of important educational trees has not been completed for this area.

*Existing Condition:* The row of pine trees is in poor condition and is detrimental to building maintenance and night lighting.

*Existing Canopy Coverage:* about 18%

* Desired Character:* Further work is required to define this axis’ desired character and to determine how to enhance it with trees. Deciduous canopy trees may be more appropriate than conifers. The axis is adjacent to the urban farm, which
should remain open and sunny. Its proximity to the urban farm may offer unique opportunities to plant trees that serve an educational purpose but may not be appropriate on the main campus (e.g., fruit-bearing trees). Proposed plantings adjacent to the Millrace should be compatible with and enhance this unique waterway.

**Johnson Lane Axis**

**Existing Character:** This axis is partially defined by Johnson Lane, a limited auto access route, and extends as a pedestrian access across the Memorial Quadrangle to Kincaid Street. The Johnson Lane portion is loosely defined by a mix of primarily deciduous trees planted on either side of the lane. The pedestrian portion consists of an open, grassy lane with an informal mix of conifers on the south side (including the previously noted Japanese red pine) and a row of tulip trees on the north side near Chapman Hall. The axis is further defined at its intersection with the Memorial Quadrangle with three English oaks and a tulip tree. The western end of the axis has a mix of deciduous trees and terminates at the LTD bus station and a parking lot.

An inventory of important educational trees has not been completed for this area.

**Existing Condition:** The trees in the axis are generally in good health with the exception of the mature pin oaks, which are in a state of decline.

**Existing Canopy Coverage:** about 48%

** Desired Character:** Further research is needed to determine how to better define this axis with more formal tree plantings (especially along Johnson Lane). Also, there may be opportunities to better define the western terminus when the parking lot is developed for university use. Additional plantings should maintain an open grassy center and preserve the view corridor from “The Pioneer Mother” to “The Pioneer” (refer to the Women’s Memorial Quadrangle).

Also refer to the preservation plan for the Johnson Lane Axis contained in 2.0 Site Preservation Plans and Guidelines, prepared as part of the Campus Heritage Landscape Plan.

**Knight Library Axis**

**Existing Character:** This pedestrian walkway leading from Kincaid Street to University Street includes portions of the Women’s Memorial Quadrangle and the Memorial Quadrangle, both of which are listed on the National Register of Historic Places. It has a traditional campus character with informal plantings of mature, large-canopy shade trees planted on either side of the walkway. The large European beech tree south of the Schnitzer Museum of Art contributes significantly to the character of axis.
An inventory of important educational trees has not been completed for this area.

**Condition:** The pin oak adjacent to the beech tree is in decline due to a past injury.

**Existing Canopy Coverage:** about 55%

**Desired Character:** The existing character of the area should be preserved and enhanced.

**Promenade**

**Existing Character:** This heavily used pedestrian axis from the east side of the EMU to Agate Street has an open, informal character. It passes through an intentionally sunny open area dotted with shade trees and is designed to provide outdoor activity space for special events and for students residing in the dormitories. The Austrian black pine north of Earl Hall is an important educational tree.

**Existing Condition:** One of the two mature big-leaf maples in the lawn area east of the EMU was lost, and the other is in poor condition.

**Existing Canopy Coverage:** about 26%

**Desired Character:** The existing character should be preserved and enhanced. In particular, an effort should be made to replace the lost and declining big-leaf maples. There may be an opportunity for additional trees near the Agate Street pedestrian crossing as long as the motorist’s view of the crossing is not impeded. The important educational tree is to be afforded extra care.

**Southwest Campus Axis**

**Existing Character:** This axis, reaching from Education south to 18th Avenue, is poorly defined. It consists partly of a parking lot/drive and partly of grassy, open space interspersed with informal plantings of deciduous and coniferous trees. Many trees in this area are important educational trees, including the ginkgo and cluster pine near 18th Avenue, the young ginkgo trees and dawn redwood near Education; and the golden weeping willow, dragon-claw willow, ambrozyana Hispanic oak, Japanese pagoda tree, white mulberry tree, and cluster of birch in front of Music.

**Existing Condition:** The trees in the area are generally in good condition.

**Existing Canopy Coverage:** about 21%
**Desired Character:** Future development plans for this area should incorporate improvements to this axis. Planting additional trees to better define the axis should preserve the view of the historic west entry to Beall Hall, enhance the view from 18th Avenue looking north down the axis, preserve the mix of sunny and shady spots, and shade the west side of Music. The important educational trees should be afforded extra care.

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**University Street Axis**
*(Including the intersection of University Street and 13th Avenue)*

**Existing Character:** This axis reaches all the way from Lawrence Hall south to 18th Avenue. University Street is open to automobiles between 13th Avenue and 18th Avenue and is a typical tree-lined street. The majority of trees are maples and oaks, with the exception of the area south of McArthur Court, which includes a wider mix of deciduous trees. Pin oaks dominate the portion north of 13th Avenue, known as the Lawrence Hall view corridor. The *Campus Plan* recognizes these pin oaks as significant trees, which help form or reinforce the identity of the view corridor.

This axis is adjacent to Gerlinger Hall and Hendricks Hall, both of which are listed on the National Register of Historic Places, and the Collier House, which is listed as a City Landmark. The recently completed University Street Axis Conceptual Study provides additional information about existing conditions.

The two kobus magnolias west of the EMU are important educational trees. An inventory of important educational trees has not been completed for the entire axis.

**Existing Condition:** Some of the tree-planting areas have restricted root zones, restricting full growth capacity. This is particularly true at the southern end of the axis in the street diagonal parking area and at the northern end of the axis where the pin oaks are in planters. Some trees are affected by typical compaction problems evident in high foot-traffic areas. The mature fir and big-leaf maple east of the Collier House are in a state of decline. In addition, the Kentucky coffee tree west of the EMU and the black locust west of Esslinger are in poor condition.

**Existing Canopy Coverage:** about 22%

**Desired Character:** An effort should be made to soften the hardscape by finding new places with adequate growing room for trees, with the exception of the Amphitheater Green at the intersection of University Street and 13th Avenue.

The trees identified as significant by the *Campus Plan* are to be afforded extra care. The *Campus Plan* states that a program for replacement of these trees as
they reach the end of their natural life cycles will be needed in order to preserve the existing character. In addition, the important educational trees deserve extra care.

Refer to the University Street Axis Conceptual Study for more information about the desired character of this area. For additional information about the street edge adjacent to the Straub Hall Green, refer to “Straub Hall Green.”

6.4 Designated Open Spaces: Greens

Bakery Park Green

Existing Character: This open space, donated by Williams’ Bakery, is prominently situated between Franklin Boulevard and the bakery. It has an undefined character consisting of a lawn interspersed with a mix of deciduous trees, primarily European beech.

An inventory of important educational trees has not been completed for this area.

Existing Condition: The area has poor drainage and remains wet a large portion of the year, which limits appropriate species. Some of the trees transplanted from the Science Facilities Additions and Alterations project are not well suited to the area and have died or are in poor condition.

Existing Canopy Coverage: about 4%

Desired Character: This area is neither traversed by pedestrians nor used for seating, which provides an opportunity for a denser canopy. Future tree plantings, however, should address all requirements established by Williams’ Bakery, including preservation of the view of Williams’ Bakery from Franklin Boulevard. In addition, this open space serves as a primary vehicular entrance to the university with the EmX Bus Rapid Transit station at Agate Street and Franklin Boulevard. Opportunities to enhance future building construction on the parking lot site to the west should also be considered.

Gerlinger Field Green

Existing Character: This open, grassy playing field preserves the view of the south side of the historic Gerlinger Hall sun porch. The site and building are part of the Women’s Memorial Quadrangle National Register designation. The only trees planted on the site are on the eastern edge adjacent to University Street, consisting mainly of a dense row of steel Lawson false cypress and a pair of Douglas fir. Although not part of the open space, the Pioneer Memorial
Cemetery conifers along the southern edge contribute to the area’s character and are maintained by the university.

An inventory of important educational trees has not been completed for this area.

**Existing Condition:** The trees on university property are in good condition. There are concerns, however, about the stability of the conifers along the steep bank of the Pioneer Memorial Cemetery just south of Gerlinger field.

**Existing Canopy Coverage:** about 8%

**Desired Character:** The existing character of the tree canopy should be preserved and enhanced. Further study is necessary to determine if there are ways to improve the current tree canopy while maintaining the open playing field. The university should continue to work with the Pioneer Memorial Park Association to maintain the conifers along the southern edge of the field.

---

**Glenn Starlin Green**

**Existing Character:** This quiet courtyard enclosing the Museum of Natural History entrance is planted primarily with native species of trees and plants and serves as an outdoor classroom associated with the Museum of Natural History.

**Existing Condition:** The trees in this area are relatively young and in good condition.

**Existing Canopy Coverage:** about 41%

**Desired Character:** A mix of sunny and shady areas is desirable to accommodate various native plantings and provide seating opportunities. It may be possible to plant additional native trees to better enclose the open space while maintaining the view of the Museum of Natural History from the intersection of Agate Street and 15th Avenue. Additional trees in the adjacent parking area are also desirable to reduce its visual impact and to shade the paved surfaces.

---

**Humpy Lumpy Green**

**Existing Character:** This sunny open area at the northwest corner of the Agate Street and 15th Avenue intersection is dotted with large and small shade trees. It is designed to provide informal outdoor activity space for students residing in the dormitories. This area also encompasses two street edges. There are two large street trees, an American planetree and an American elm, along 15th Avenue, but only smaller trees along Agate Street (refer to “Agate Street Axis”).

An inventory of important educational trees has not been completed for this area.

**Existing Condition:** Some trees have been lost in the short-lived plum groves, but
they have been replaced.

**Existing Canopy Coverage:** about 26%

**Desired Character:** The two street edges could benefit from additional large-canopy trees to help shade the street surface and buffer the Humpy Lumpy open space from auto traffic. There is also an opportunity to shade the west side of the Bean residence hall complex. New trees should not interfere with the safety of the area or the intentionally sunny Humpy Lumpy area.

**Kincaid Green**

**Existing Character:** The most noticeable feature of this open space is a row of mature Douglas fir trees marking the northern end of the terminus. This row of trees, however, is off-center and blocks the symmetrical entry to Education, which is flanked by two young American planetrees.

**Existing Condition:** The trees in the open space are in good condition. The large red oak east of the area was lost but has been replaced.

**Existing Canopy Coverage:** about 53%

**Desired Character:** An opportunity exists to better define this terminus, but additional work is required to define appropriate tree-planting options. At the same time, the possibility of enhancing the approach with street trees along Kincaid Street should be considered.

**Millrace Green**

**Existing Character:** The Millrace is a unique water feature on the north side of campus. This document addresses the portion of the Millrace east of Onyx Street under university ownership. This area is informally lined with a mix of deciduous trees, including black walnuts, fruit trees and some native species. The Riverfront Research Park Master Plan governs the portion west of Onyx Street, and the university does not own the southern bank of the Millrace east of Gallery walk.

An inventory of important educational trees has not been completed for this area.

**Existing Condition:** The trees are generally in good condition. Some invasive species, including some poplar have been removed.

**Existing Canopy Coverage:** about 29%

**Desired Character:** Proposed plantings should be compatible with and enhance this unique waterway. The Millrace area provides an opportunity to plant native
riparian trees that may not be appropriate on the main campus. Appropriate native plantings to help stabilize the banks, filter storm water, and shade the water to reduce evaporative effects (such as the recent plantings near the duck pond) are encouraged when replacement of existing non-native trees occurs. A portion of the Millrace is adjacent to the urban farm and additional tree plantings should ensure that the urban farm remains open and sunny.

**Science Green**

**Existing Character:** This relatively young quadrangle, extending from 13th Avenue north to Franklin Boulevard, is defined by a formal arrangement of large-canopy deciduous trees in a lawn setting. The northern half of the quadrangle is lined on both sides with Halka honey locust to provide a rather dense canopy, and the southern half is an open, sunny lawn lined with Green Mountain sugar maples along the eastern and western outside edges. A small seating courtyard planted with a formal grove of pear trees defines the southern edge at 13th Avenue. The northern terminus of the quadrangle abuts Franklin Boulevard and was designed with the possibility of eventual connection to the Gallery Walk across Franklin Boulevard.

**Existing Condition:** The pear trees are planted in confined planting areas covered with grates and suffer from inadequate root zones and poor drainage. The honey locusts are suffering from midge infestations (a problem common in this region).

**Existing Canopy Coverage:** about 14%

**Desired Character:** The existing character of the area should be preserved and enhanced while maintaining the visual connection to the Gallery Walk and the view into campus from Franklin Boulevard. If the honey locusts must be replaced due to poor condition, a more suitable canopy tree species should be considered. In addition, options to improve the pear trees’ confined planting areas should be explored.

**Straub Hall Green**

**Existing Character:** This quadrangle, between Straub Hall and University Street, has a traditional campus character with informal plantings of deciduous and coniferous trees in a lawn setting. Pedestrian walkways criss-cross the quadrangle, which has a mix of sunny and shady seating areas. Unique plantings from the original plantings associated with the Stafford farm site remain on this site. Some of the trees are identified as important educational trees, including the Spanish fir, the weeping higan cherries, the California incense cedar, the coast redwood, and the digger pine. Refer to the University Street Axis Conceptual Study for additional information about existing and desired conditions.
**Existing Condition:** The flowering cherry trees are in a state of decline. Some volunteer trees and species remaining from the farm site, such as the holly trees, are not appropriate for a campus quadrangle. One volunteer holly along University Street is particularly poorly placed between two Norway maples.

**Existing Canopy Coverage:** about 31%

**Desired Character:** The existing character of this area should be preserved and enhanced with the exception of the inappropriate or volunteer trees. The holly along University Street should be removed, and the removal of other inappropriate trees should be considered. Refer to the University Street Axis Study for additional information. The important educational trees deserve extra care, in particular the cherry trees, which should be replaced on site or elsewhere.

Future tree plantings should include ways to buffer the open space from the EMU parking area and continue to shade the west side of Straub Hall. In addition, future tree plantings should account for the upcoming installation of a large sculpture.

**Villard Hall Green**

**Existing Character:** This area has a traditional, informal arrangement of mature conifers interspersed in a lawn setting. Within the Villard Hall National Landmark boundary, it is prominently situated adjacent to Franklin Boulevard and provides views of Villard Hall. Two mature ponderosa pines flank the walkway leading from Dads’ Gates to Villard Hall.

An inventory of important educational trees has not been completed for this area.

**Existing Condition:** Some of the conifers, particularly the ponderosa pines, are in a state of decline due to old age, overwatering, and disease. Although native to the region, ponderosa pines are not well suited to the valley floor. Also, frequent breakage is a problem with the mature firs.

**Existing Canopy Coverage:** about 28%

**Desired Character:** The existing character of this area should be preserved and enhanced. Initiating a replacement program and adjusting the watering and planting regime so that the trees are not overwatered are high priorities.
7.0 Looking Forward

This document is not intended to fully address a number of issues or provide all pieces of information. The following actions should take place as soon as possible to ensure effective implementation of this plan:

Update and Enhance the Tree Database — As recommended in the 2001 document, the tree database created in 1996 as part of the Atlas of Trees project was updated in 2006. is an invaluable resource.

Initiate a Tree Replacement Program — Trees that are removed due to poor health have generally been replaced, and some initial work has been completed to assess the health of campus trees. A more proactive approach is necessary to replace trees in decline and maintain the character of the campus. Replacement priorities should be determined by the policies established in the tree patterns and be based on the analyses of the designated open spaces provided in this document. The 2008 Campus Heritage Landscape Plan initiated this effort and should be consulted when replacing trees.

Prepare a Comprehensive Landscape Analysis - The health and longevity of the campus trees are tied to a symbiotic relationship between the trees and the understory landscape. Future efforts to map out and analyze the landscape as a whole are recommended. In addition to identifying landscape features, a site analysis map showing soil and drainage conditions (e.g. soil type, wet areas, native vs. disturbed soils, old waterways and road beds) would be very useful, beginning with the designated open spaces.

Complete Analyses of the Desired Character of Designated Open Spaces — As noted in this document, further work is required to determine the existing / desired tree-canopy character for all of the designated open spaces. The 2008 Campus Heritage Landscape Plan and the 2005 Campus Plan initiated this effort.

Enhance the Tree Diagnoses — Using this plan as a basis for analysis, future campus diagnostic studies should integrate information about campus trees. Such diagnoses would aid in determining where to focus management efforts.

Amend the Designated Open Spaces — As recommended in the 2001 document, the 2005 Campus Plan identified the importance of protecting spaces used as outdoor classrooms (e.g., playing fields and the urban farm). In addition, the open-space framework was expanded to include the Condon oak site north of the Old Campus Quadrangle and the Women’s Memorial Quadrangle. More work is still needed to extend the open-space framework to cover all areas of campus, particularly in east campus where the university is expanding, and north of Franklin Boulevard.
Appendices

Collier House, c. 1900
Appendix A: Map: Campus Tree Canopy
Appendix B: Map: Campus Tree Canopy and Designated Open Spaces
## Appendix C: Table: Summary of the Existing Tree Canopy

(based upon the 1996 Atlas of Trees database maintained by Facilities Services)

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of trees (1996)</td>
<td>3,375</td>
</tr>
<tr>
<td>Canopy coverage of all open space</td>
<td>about 20% (3,375 trees)</td>
</tr>
<tr>
<td>(includes all campus land excluding building footprints that is covered by a tree canopy in the summer)</td>
<td></td>
</tr>
<tr>
<td>Canopy Coverage of all designated open spaces (refer to map 3.2.2)</td>
<td>about 28%</td>
</tr>
<tr>
<td>Deciduous (2599)</td>
<td></td>
</tr>
<tr>
<td>Conifers (776)</td>
<td></td>
</tr>
<tr>
<td>Number of different species and cultivars</td>
<td>over 500</td>
</tr>
<tr>
<td>Most common species:</td>
<td></td>
</tr>
<tr>
<td>Acer rubrum</td>
<td>red maple (132 trees)</td>
</tr>
<tr>
<td>Pseudotsuga menzies</td>
<td>Douglas fir (129 trees)</td>
</tr>
<tr>
<td>Quercus palustris</td>
<td>pin oak (120 trees)</td>
</tr>
<tr>
<td>Liquidambar styraciflua</td>
<td>American sweetgum (118 trees)</td>
</tr>
<tr>
<td>Prunus serrulata</td>
<td>Oriental cherry (101 trees)</td>
</tr>
<tr>
<td>Acer platanoides</td>
<td>Norway maple (100 trees)</td>
</tr>
<tr>
<td>Species Native to the Willamette Valley</td>
<td>14% of total</td>
</tr>
<tr>
<td>(refer to table 3.2.4 for more details)</td>
<td></td>
</tr>
<tr>
<td>Age range of selected species based upon truck diameter:</td>
<td></td>
</tr>
<tr>
<td>Acer macrophyllum – big-leaf maple</td>
<td>41% young</td>
</tr>
<tr>
<td>Trunk Diameter: 1 – 9 inches (1– 16’ canopy) – 14 trees</td>
<td>24% established</td>
</tr>
<tr>
<td>10 – 29 inches (20-50’ canopy) – 8 trees</td>
<td>32% mature</td>
</tr>
<tr>
<td>30 – 79 inches (30-60’ canopy) – 11 trees</td>
<td>3% very mature</td>
</tr>
<tr>
<td>80 + inches (60’ canopy) – 1 tree</td>
<td>34 trees</td>
</tr>
<tr>
<td>Pseudotsuga menzies – Douglas fir</td>
<td>28% young</td>
</tr>
<tr>
<td>Trunk Diameter: 1 – 9 inches (1–34’ height) – 33 trees</td>
<td>23% established</td>
</tr>
<tr>
<td>10 – 19 inches (30-60’ height) – 27 trees</td>
<td>35% mature</td>
</tr>
<tr>
<td>20 – 49 inches (50-100’ height) – 42 trees</td>
<td>14% very mature</td>
</tr>
<tr>
<td>50 + inches (60-145’ height) – 17 trees</td>
<td>129 trees</td>
</tr>
<tr>
<td>Quercus palustris – pin oak</td>
<td>25% young</td>
</tr>
<tr>
<td>Trunk Diameter: 1 – 9 inches (1–35’ canopy) – 30 trees</td>
<td>37% established</td>
</tr>
<tr>
<td>10 – 19 inches (20-47’ canopy) – 44 trees</td>
<td>14% mature</td>
</tr>
<tr>
<td>20 – 29 inches (25-66’ canopy) – 17 trees</td>
<td>24% very mature</td>
</tr>
<tr>
<td>30 + inches (35-69’ canopy) – 27 trees</td>
<td>120 trees</td>
</tr>
<tr>
<td>Donated Trees (374)</td>
<td>11% of total</td>
</tr>
<tr>
<td>Includes Century Trees (450 originally planted from 1976-1983) and all other Memorial/Honorarium Trees.</td>
<td></td>
</tr>
</tbody>
</table>
### Appendix D: Table: Species Native to the Willamette Valley on Campus

(based upon the 1996 Atlas of Trees database maintained by Facilities Services.)

<table>
<thead>
<tr>
<th>Species Name</th>
<th>Common Name</th>
<th>Campus Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abies grandis</td>
<td>grand fir</td>
<td>4</td>
</tr>
<tr>
<td>Acer circinatum</td>
<td>vine maple</td>
<td>105</td>
</tr>
<tr>
<td>Acer macrophyllum</td>
<td>big-leaf maple</td>
<td>34</td>
</tr>
<tr>
<td>Alnus rubra</td>
<td>red alder</td>
<td>9</td>
</tr>
<tr>
<td>Alnus rhombifolia</td>
<td>white alder</td>
<td>0</td>
</tr>
<tr>
<td>Arbutus menziesii</td>
<td>madrone</td>
<td>2</td>
</tr>
<tr>
<td>Calocedrus decurrens</td>
<td>incense cedar</td>
<td>53</td>
</tr>
<tr>
<td>Cornus nuttallii</td>
<td>dogwood</td>
<td>31</td>
</tr>
<tr>
<td>Corylus cornuta</td>
<td>hazel</td>
<td>5</td>
</tr>
<tr>
<td>Crataegus douglasii</td>
<td>hawthorne</td>
<td>6</td>
</tr>
<tr>
<td>Fraxinus latifolia (F.oregana)</td>
<td>Oregon ash</td>
<td>4</td>
</tr>
<tr>
<td>Pinus ponderosa(^4)</td>
<td>ponderosa pine</td>
<td>26</td>
</tr>
<tr>
<td>Populus trichocarpa</td>
<td>cottonwood</td>
<td>10</td>
</tr>
<tr>
<td>Prunus emarginata</td>
<td>bitter chokecherry</td>
<td>0</td>
</tr>
<tr>
<td>Pseudotsuga menziesii</td>
<td>Douglas fir</td>
<td>129</td>
</tr>
<tr>
<td>Quercus garryana(^4)</td>
<td>Oregon white oak</td>
<td>4</td>
</tr>
<tr>
<td>Quercus kelloggii</td>
<td>California black oak</td>
<td>1</td>
</tr>
<tr>
<td>Rhamnus purshiana</td>
<td>cascara buckthorn</td>
<td>2</td>
</tr>
<tr>
<td>Salix lasiandra(^5)</td>
<td>pacific willow</td>
<td></td>
</tr>
<tr>
<td>Scouleriana</td>
<td>scouler willow</td>
<td></td>
</tr>
<tr>
<td>Sessilifolia</td>
<td>northwest willow</td>
<td></td>
</tr>
<tr>
<td>Sitchensis</td>
<td>sitka willow</td>
<td></td>
</tr>
<tr>
<td>Taxus brevifolia</td>
<td>pacific (western) yew</td>
<td>3</td>
</tr>
<tr>
<td>Thuja plicata</td>
<td>western red cedar</td>
<td>28</td>
</tr>
<tr>
<td>Tsuga heterophylla</td>
<td>western hemlock</td>
<td>13</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>469 +</strong></td>
</tr>
</tbody>
</table>

\(^3\) The definition of species native to the Willamette Valley is based upon:

\(^4\) Trees native to the Willamette Valley are not necessarily well suited to the micro conditions on campus. For example, most ponderosa pines are more suited to forested areas in higher elevations. There may be a subspecies known as the valley pine that is more suited to the valley floor, but it is not identified in the campus tree data. In addition, many native species, such as the Oregon white oak, are better suited in undisturbed sites, making it very difficult to transplant and establish them in a campus environment.

\(^5\) Native willow species, e.g. those in the Millrace area, are not identified in campus tree data. Also, many are considered shrubs, e.g. piper willows.
**5.4.1 Table: Designated Open Spaces: Applicable Campus Plan Patterns**

| Campus Plan Pattern | Pattern Description | 13th Ave. Axis West | 13th Ave. Axis East | Agate Street Axis | Bakery Park Green | Dads' Gates Axis | Deadly Hall Walk Axis | Emerald Axis | Gallery Walk Axis | Gerlinger Field Green | Glenn Starlin Green | Humpy Lumpy Green | Johnson Lane Axis | Kincaid Green | Knight Library Axis | Millrace Green | Old Campus Quadrangle | Promenade | Science Green | Straub Hall Green |
|---------------------|---------------------|---------------------|---------------------|------------------|------------------|------------------|---------------------|-------------|------------------|---------------------|-------------------|------------------|------------------|-------------|------------------|-------------|------------------|------------------|
| Accessible Green    | Maintain an open space in proximity to all buildings. | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Activity Nodes      | Create small centers of activity separated by quiet space. | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Local Sports        | Scatter facilities for physical exercise around campus. | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Main Entrance       | Make main entrances to buildings distinctive and easily identifiable from main approaches. | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Positive Outdoor Space | Place and form buildings to define and partially enclose outdoor space. | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Promenade           | Develop a major pedestrian way, centrally located with main attractors at each end to link principal activity nodes. | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Public Outdoor Room | Make outdoor places with some enclosure; mark them. | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Quiet Backs         | Connect buildings to a quiet space, removed and buffered from adjacent sources of noise. | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Shielded Parking    | Screen parking lots from view by landscaping, walls, or topographic features. | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| South Facing Outdoors | Design buildings to create south-facing outdoor spaces whenever possible. | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| University Streets  | Front major campus activities on public streets that are essentially pedestrian in nature; connect to new buildings on these streets. | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
Appendix F: Aerials of Campus

Northwest portion of campus, 1936 aerial photograph (north is at the top).
1944 aerial photograph of campus (north is at the top).
1952 aerial photograph of central campus (north is at the top).

1974 aerial photograph of central campus in the winter (north is at the top).
2007 aerial photograph of campus (north is at the top).
Appendix G: Process for Developing the Campus Tree Plan

The Campus Tree Plan was prepared by the 2000-2001 Development, Policy, Implementation, and Transportation (DPIT) Subcommittee of the Campus Planning Committee. The need to develop a plan is identified in the 2000 Sustainable Development Plan, specifically in the “Campus Tree” pattern.

The DPIT Subcommittee began work on the Campus Tree Plan in Winter 2000/2001 by reviewing related policies and guidelines already in place at the University of Oregon as well as at other universities and organizations. They also reviewed the history of tree development on campus using historic maps and photographs. This helped the subcommittee identify the primary goals of the plan as well as issues that should be addressed. Limited time and resources meant that not all possible tree and landscape issues could be addressed as part of the Campus Tree Plan.

After developing a draft plan, the DPIT Subcommittee distributed copies to Campus Landscape and Grounds staff in Spring 2001 for review and comment. The draft plan was also reviewed by Scott Plamonden, Oregon State Urban Forester. During this review period, members were invited to a panel discussion on sustainable campus landscapes at the H.O.P.E.S. conference, which helped identify ways to integrate sustainable solutions into landscape practices. In addition, the DPIT presented the draft plan to the full Campus Planning Committee May 3, 2001 for initial review and comment.

In June 2001, the DPIT Subcommittee considered all comments and suggestions, then prepared a final draft for full Campus Planning Committee review.

On October 4, 2001, the Campus Planning Committee reviewed and approved the Campus Tree Plan as a Level 3 Plan. As described in the 1991 Long Range Campus Development Plan (LRCDP), Level 3 Plans are designed to describe the intent and implementation of LRCDP patterns and policies. In this instance, the Campus Tree Plan describes the intent and implementation of patterns and policies related to tree management.

In July 2008, the Plan was updated to make it more reader-friendly and to reference the 2005 Campus Plan and the 2008 Campus Heritage Landscape Plan. No substantive changes were made.