Goals and Objectives for Campus Planning
CLACKAMAS COMMUNITY COLLEGE MASTER PLAN

GENERAL

* Seek creative, collaborative solutions to site use conflicts and problems.
* Maintain the College as a community center for academic growth, cultural, recreation, and social awareness.
* Focus stewardship of the campus grounds on support of education, encouragement of community participation, and enhancement of natural resources.
* While striving to remain integrated with the growth of the increasingly urbanized surrounding area, maintain the special character of the campus by preserving and enhancing the unique open space and natural setting.
* Meet, and where reasonable exceed, Americans With Disabilities Act standards for site accessibility.
* Preserve mature landscape features, examples including: Family Resource Center Woods, Moss Woods, Pauling Woods, Randall Woods, and the Arboretum.
* Seek creative sound dampening techniques to limit interference from traffic noise, enhance outdoor instruction and campus enjoyment and improve tranquility and solitude in passive areas.
* When planning new facilities, maintain adequate space and services in the proximity of existing operational facilities to support their function, identity and storage needs.
* See to provide specified 40’ buffer, through the use of plantings, around all campus borders, as a guideline.

CAMPUS CHARACTER

* Retain informal character of campus in design of circulation and open space.
* Retain designated natural areas and link with other habitat where feasible.
* Maintain adequate open space at the College entries to provide gracious, non-encroached corridors, designed for an inviting, uplifting sense of arrival.
* Use natural, durable, attractive materials in construction of site furnishings as well as other improvements. Adopt a plan for consistency in types of materials and character in coordination with Campus Services. These are to include; benches, refuse containers, ash urns, kiosks, and signage.
* Avoid the use of style and material in permanent construction that is dated or can be considered "slick, chic, trendy, or cold." Seek design that has a sense of personality, intrigue, permanence, warmth and invitation.

EDUCATION & INSTRUCTION

* Seek opportunities in the landscape design to utilize the campus effectively for various structured classes and for self-instruction. Develop demonstration areas and instructional gathering areas.
* In addition to expanding the use of native plants, develop specialized habitat for the display of unique native plants.
* Utilize the landscape throughout the campus to display Art in coordination with the Art Committee.

* Continue development of the campus as an Arboretum for instructional use. Locate specimen trees with forethought for long range preservation because of the time required for their maturity.
* Continue to develop the Rhododendron Display Garden in the Horticulture Department Arboretum along Beavercreek Road entrance.
* Continue to develop and support the Oregon Landscape Contractors Association test site adjacent to the Rhododendron Display Garden.
* Retain Instructional areas, such as Turf Test Plots, the All-America Display Gardens and the Greenhouses in their current locations. Coordinate long range planning to accommodate Horticulture Instructional facilities such as mature trees in the Arboretum, and Display Gardens that represent a long term investment in time, development effort, educational value and sentiment.
* Retain and promote use of the Community Gardens, the Home Orchard Society garden and the Composting Demonstration area.
* Develop the Environmental Learning Center as an educational tool which accommodates storm water management, educational features, passive, green open space conducive to nature observation and study, wildlife support and introspection.
* Continue development of the Oregon Tree Transect, the Living Fossil instructional area, the Pauling Woods as a Science Lab and Pauling Native Gardens.
* Coordinate drainage and storm water management improvements with parking lot redevelopment.

ATHLETIC FIELDS, PHYSICAL EDUCATION AND RECREATION

* Accommodate community recreation needs where practical.
* Construct one practice softball field
* Construct a competition soccer field.
* Construct one regulation practice soccer field
* Retain tennis courts in existing location but replace entire base and surfacing for improved drainage, maintenance and performance.
* Construct four to six sand volleyball courts.
* Construct two outdoor basketball courts.
* Retain an adequate lawn area near Randall Hall for physical education use.
* Construct a press box and public address system, sealing for 400-500 spectators and fencing around the track.
* Maintain a 250 foot long corridor for the hammer throw.
* Provide drainage improvements to jogging trail and maintenance funds for surfacing and grooming, Complete short link along loop road (northeast) at time water quality/restoration projects are undertaken in that area.
* At time new field(s) are constructed on the north campus border (old filbert orchard site), provide vegetative, hedgerow and earth mound buffering along the north border.
* Where practical, include mowable grass slopes for spectator seating with new playfield construction.
* For the contribution it makes to the vitality of the College, design recreational space for visual accessibility.
* Build a multipurpose outdoor turf amphitheater with mowable grades.

* Provide additional passive recreational opportunities. Enhance existing passive recreation areas.
* Seek partnerships for shared facilities with city, county, and region.

LAWNS

* Decrease mowing area and increase natural vegetation, habitat and screening on peripheral areas of campus and where reasonable opportunities exist for wildlife corridors. *identify these areas:*
* For both its visual and social use values, maintain a viable amount of lawn in central campus areas, especially as a part of spaces between buildings and in courtyards.
* Maintain irrigated lawn as part of the entry statement at all campus entries.
* Utilize "best maintenance practices" in maintaining vigor, purity and appearance of lawns and in reducing to the extent reasonably possible the environmental impact of maintenance practices.
* Maintain a system of classifying turf areas.

PLANTING

* Concentrate ornamental plantings in the building areas of the campus and native vegetation on the campus borders creating a transition from "natural to refined", but not formal landscape.
* Utilize drought tolerant plants where natural soil moisture does not occur during the dry season.
* Where feasible, provide transition areas of paving, lawns and "intermediate" landscape to reduce weedy plant immigration into ornamental planting areas.
* Provide landscape buffering at least forty feet in depth at campus borders for noise abatement and visual screening of roadways and development.

VEHICULAR AREAS -ROADS AND PARKING, SERVICE AND EMERGENCY ACCESS

* Focus on reducing conflicts between vehicles and pedestrians. Avoid through access of vehicles inside of the loop road in order to maintain pedestrian routes from parking areas to the center of the campus unimpeded by vehicular crossings. Locate facilities service access points as much as possible in a manner to keep related vehicles out of pedestrian areas.
* With both design of new and alteration or reconstruction of existing roadway and parking areas, construct drainage, bio-filter swales and storage facilities for "no-net-increase" of water run off from site. Monitor and maintain water quality to exceed minimum regulatory standards.
* Whenever feasible, eliminate subsurface storm drainage in areas of new construction. Provide drainage crossings for vehicles and pedestrians on bridge type structures that are open to daylight and allow vegetative connection of habitat.

PEDESTRIAN CIRCULATION

* Provide pedestrian ways not only for function and convenience but also to enhance enjoyment, intrigue, aesthetic quality, safety and education.
* Develop a hierarchical pedestrian route system that distinguishes the type and usage of routes by the use of material, texture, color, furnishings, scale and other design conventions. Utilize minimum criteria for sidewalks and pathways.
* Design and construct sidewalks for all primary routes and provide clear direction and connection between outlying facilities and the main campus.
* From parking to building facilities and activity areas, provide accommodating routes that encourage foot traffic away from vehicular traffic. Develop a pedestrian plaza adjacent to Barlow Hall and the parking lot.
* Give particular attention to design of areas utilized by school age children such as the Environmental Learning Center and the Family Resource Center.

GROUNDS MAINTENANCE

* Adopt standards for site maintenance and secure resources to support standards.
* Promote responsibility for conscientious stewardship in horticultural practices.
* Budget adequately for additional maintenance with each new construction project.
* Utilize a campus-wide policy for use of volunteers, work-study students and club organizations.
* Identify priority, clearly definable projects for volunteer maintenance. Develop a policy for implementation and procedure. Utilize only with qualified supervision on all projects.

SAFETY AND SECURITY

* Adopt security standards for campus grounds.
* Maintain adequate light levels in all pedestrian areas to support a secure night Environment.
* Bring deficient areas up to minimum standards.
* Highlight major pedestrian routes*
* Keep vegetation pruned where reasonable and/or seek methods to separate hiding areas from foot traffic on all major pedestrian routes.
* Maintain improvements such as fencing, lighting and landscaping as needed to assure child safety and security at the Family Resource Center.
* Focus on design solutions that separate vehicular and pedestrian traffic.

NEW CONSTRUCTION & MAJOR REMODELING

* Adopt and maintain minimum standards for campus site construction.
* Adopt and keep current minimum construction standards for use of environment-friendly products and technologies.
* For each project objectively prepare alternative site plan concepts that represent varying solutions to development of facilities. Include alternatives for location and massing of structures, scale, access and circulation, parking impacts, space use and embellishment.
* Construct site work for durability, consideration of maintenance, and quality commensurate with that of new building construction.

* Provide site and landscape improvements in all areas impacted by new development including influences on such elements as access and circulation, drainage, lighting, automated irrigation, and vegetation. Include extension and enhancement of pedestrian routes.
* Construct and/or reconstruct drainage to improve water quality, store storm water and create wildlife habitat and linkages.
* Include signage and communication devices, adequate site furnishings for seating, litter containment, bicycle storage, artwork and screening.
* Capitalize on opportunities for instruction, learning, and social interaction.
* Reduce the visual impact of vehicles to optimize the spatial experience of the campus user.
* Utilizing International Society of Arboriculture guidelines, develop and adhere to standards that allow minimum to no impact on established trees and landscape plants.
* Install outdoor lighting that is energy efficient and wildlife friendly and illuminates the ground for safely, while minimizing light pollution of the night sky.
* Provide campus staff to monitor landscape construction projects.

SIGNAGE AND COMMUNICATION

* Maintain a consistent signage system.
* Install new signage and remodel old in accordance with adopted guidelines managed by the Signage Committee.
* Maintain lighted, up-to-date information kiosks at primary pedestrian entries from parking and transit facilities.
* Maintain a sensitive (non-garish), festive information presence at the College's entries.
* Develop an interpretive signage system for the campus.

ECOLOGY

General:

* Restructure campus stormwater system to a functioning, educational hydrological system that filters and slowly releases storm water.
* Seek participation and cooperative alliance with surrounding land uses to engage the local community in land stewardship and collectively improve water quality and enhance wildlife habitat connectivity.

Water Flows/Drainage:

* Maintain natural drainage flows. Enhance and restore original flows where opportunities exist with new construction.
* Identify seeps and springs and protect area around them.

Water Quantity:

* Provide swale systems within the campus to slow the flow of storm water and reduce runoff by improving percolation into the soil .*
* Provide wetland restoration opportunities at sites where campus runoff enters Newell and Caufield creeks.
* Where practical "daylight" converted storm water flows on campus to allow increased absorption, slow the flow of runoff and improve wildlife access.

Water Quality:

* Maintain cool water temperatures by providing shade and avoiding large open ponds.
* Provide buffer areas such as swales that include rushes/shrubs/trees to for parking lot runoff before it enters wetlands or creeks and to filler impurities before they reach wetland areas.
* Design planting schemes for swales with species that absorb pollutants before water enters wetland areas.
* Consider the use of pesticides, herbicides, fungicides and fertilizers in Ground's maintenance, Horticulture Department programs, Environmental Learning Center programs, Community Gardens, and Home Orchard Society and seek appropriate remedies if problems are identified.

Biodiversity – Habitat:

* Arrange facilities to maximize size of contiguous areas of undeveloped space. Find opportunities for larger areas and connections between different types of habitat.
* Develop standards for maintenance of older trees including dead/dying trees to provide habitat.
* Develop a variety of wetland habitats.
* Use hedgerows in place of fences and other barriers when appropriate.

Biodiversity – Linkages:

* Maintain linkages to habitat off campus, specifically southwest to Caufield Creek Watershed, northwest to Newell Creek Watershed and to the southeast .
* Provide linkages between wetlands and damp forested areas to provide for migration of amphibian species.

Adopted by consensus of the Grounds Committee on *June 8,* 2006
Under the direction of Kirk Pearson, Director of Campus Services

Grounds Committee represented by:

Plant Services Department:	Kirk Pearson, Mickey Yeager, and Tom Powell
Horticulture Department:	Alison Heimowitz, Elizabeth Howley, Loretta Mills, and Chris Miskow
Life Sciences Department:	Jennifer Bown and Joan Harrison-Buckley
Athletic Department:	Robin Robinson
Landscape Architect:	Bo Nevue