Drake University Center
Thesis Proposal
College of Architecture & Planning
Ball State University
Nils O. Stangenes
28 August 1972
The proposed building is a unique structure in that it is totally a center bringing together the most diverse aspects within a university setting. This together with the various separate functions within the complex add to the dynamics and complexity of the problem.
Added advantages to the above mentioned proposal include:

1) a summer of research and collection of data on the facility.

2) the author's personal role as production architect in charge of interior details, elevators, site work and much of the coordination in the working drawing stage of the facility while with the firm Harry Weese & Associates, Chicago.

3) an expressed desire on the part of the above mentioned firm and its consultants to aid and counsel the student as he departs on a totally different approach to the designing of a facility of this type.

4) the ability to stay within a realistic framework of cost and work with the administrative agencies such as HUD already established for the Drake center complex.
DRAKE UNIVERSITY CENTER
A PROGRAM

NILS O. STANGENES
10/06/72
NATURE OF PROJECT

PURPOSE

The purpose of Drake University Center is a facility equipped to handle educational, cultural and social and recreational programs for Drake students, faculty and campus guests. The center should supplement the academic activities and foster informal associations among students, faculty and others outside the classroom. The center shall serve as a unifying force in and focal point for the campus community.

VALIDITY

It is agreed by both faculty and students that the most pressing need on the Drake campus is a university center. Drake U. is one of the few institutions of higher education without such a building.

Limitations of housing facilities at Drake make it impossible for all students to live "on-campus" with the result that more than one-third of the student body spends little more than class and library hours on the campus. A University Center would provide comfortable and attractive surroundings together with a meaningful program which would encourage students to spend more time on the campus in association with other students and with faculty and staff in an out-of-class situation.

At the present time, there is virtually no place on the

DRAKE UNIVERSITY CENTER
Drake campus for student organizations to maintain offices. The result has been a severe lack of continuity in student organizational life. Needed office space and a general workroom would be provided to assist the more than 100 organizations in the development of their own programs.

In still another area, a survey of the campus indicates a severe lack of meeting space for student and faculty meetings and social gatherings, either with or without food service. At the present time, only three small rooms in Hubbell Dining Hall are available for luncheons, with a maximum seating for 120 persons and these are not available during the current year due to construction and remodeling of the Hall.

Classroom space must be used for meetings of campus organizations and for group other than students wishing to meet with faculty and staff. This is disadvantageous to student organizational life because the organizational activity or meeting is often incompatible with classroom use and, of necessity, meetings must be scheduled on a low priority of usage—around scheduled classes. Until the opening of Meredith Hall, classroom space was being utilized approximately 90 percent of the time. The addition of this building has alleviated this problem to a small degree, but even new classroom space must be carefully scheduled for classes and little time and space is available for meetings.
There are no adequate facilities at Drake for short courses and conferences. Often departments and colleges wish to host state or regional meetings of professional groups but decline to offer invitations due to the lack of space for meetings, luncheons, dinners, etc. A University Center should provide the necessary facilities to assist Drake University in meeting its obligations to the many professional publics represented by its departments and colleges.

Dining facilities, although now being expanded, are not available for other than the normal needs of resident students. Adequate facilities to meet the mealtime requirements of non-resident students, to provide snack bar facilities for all persons on the campus, and to meet the needs for luncheons, dinners, teas, receptions, and similar activities are normally provided in a University Center.

An analysis made of the activities on the Drake campus (academic and recreation) revealed that there is no facility which serves as a "center," a rallying point, or as a unifying force for the Drake community. A well-conceived and well-operated University Center should provide this function.

OBJECTIVES

The overall objectives of the University Center will be to bring together divergent factors of the student body, faculty...
members and guests and will serve as a focal point for social and cultural activities. It will truly serve as a unifying force on the Drake campus.

More specific objectives include providing the following services for the Drake community: food service, recreational facilities, student activities and student organizational areas. Also included should be cultural and hobby facilities, general services, meeting rooms, administrative offices and social facilities such as a ballroom(s), lounges and party rooms.

Physical objectives such as the building's proper relationship to surrounding site amenities, the functional link to other university facilities and factors of appearance, scale, etc. will be considered in detail at a later stage in the project development.
TRAFFIC

Drake University and the city of Des Moines are presently trying to establish the alignment of a north-south arterial connection to the Des Moines Freeway at 31st Street. North of Frest Avenue, 30th Street already exists as a two-lane arterial, intersecting with Hickman Avenue and Douglas Avenue, two important east-west routes. South of University Avenue, 31st Street extends one-half mile to the Freeway and thence southward, intersecting with east-west routes at Center Street, Ingersoll Avenue and Grand Avenue.

The principal peripheral circulation route is formed by the 30th-31st Street arterial, University Avenue, Clark Street, and 24th Street. Clark Street and 24th Street connect directly via off-campus extensions to the city's arterial system and the Cottage Grove-Freeway interchange. Access to the circulator, via the Clark Street extension between 24th Street and Harding Avenue permits traffic from the north-east direct access to the commuter parking areas located northeast of the academic core.

SITE

The site itself is presently without structures of any type, but paved with asphalt tennis courts at its north border. Surrounding structures bound the site to the north and west in the form of university residence halls. The southern portion
of the site is presently grass area with pedestrian walkways.

UTILITIES

Drake University's heating system is two-fold -- a high pressure steam system with a conversion to low pressure in certain areas of the campus at 280-degrees F. Also from the central heating plant is the source of cooling by chilled water at 42-degrees F. There is a gas vault adjacent to the site at the tunnel level of Hubbell Dining Hall.

Primary electrical energy can be delivered at 13.2 KV for 3-phase 4 wire Y service.

Buried telephone and main communications cable for audio and video lay south in the site boundaries at 3' below grade level.

Water supply line and closest sanitary sewer border site to the west below 29th Street.

SOILS

Surface soils of the site and surrounding area are brown and dark brown topsoil down to approximately six inches below the surface. Subsurface soil information to a depth of sixty feet below grade was gathered by the soils investigative firm of Patsig Laboratories, Inc. All borings were attained through an auger rig and Shelby tube sampler. The information is in the following order: Depth of bore, type of soil sample, the
moisture content, and unconfirmed compressive strength.
From one to 5 feet, brown and dark brown very silty clays, san
sandy, damp; 15.8%; established QU, 4000. From five to
fifteen feet, brown to brown mottled grey very silty clay,
sandy, traces of small gravel, damp; 21.0%; established QU,
2830. From fifteen to twenty feet, dark grey very silty clay,
sandy, very damp; 20.0%; established QU, 2480. From twenty
to thirty feet, grey to grey brown very silty clay to clayey
silt, grey after 20', damp to wet, organic; 29.7%; establish-
ed QU, 1810. From thirty to forty-one feet, grey to grey brown
very silty clay to layer silt, grey after 20' damp to wet,
organic content to 20'; 25.5%; established QU, 2690.
From forty-one to fifty-six feet, grey silty clay, glacial
till, trace of fine sand and small pebbles, damp, mottled
brown after 42'; 16.8%; established QU, 7.545. To sixty feet,
brown silty sand, fine, interbedded with thin layers of sandy
clay, damp to wet.

Water level was established at 37 feet below grade.

Foundations of similar sized surrounding buildings enclose
either driven piles of 55 to 60-foot depth or 40 to 50-foot
deep belled caissons. The latter in recent years has proved
to be the more economical of the two.
VEGETATION

The site vegetation is typical of central Iowa with gently sloping topography. More than one half of the site is paved with an exiting tennis court (asphalt). The residual portion to the south is university kept lawn with three oak trees ranging from 24 to 36 inches in diameter. To the east of the area described above are eight old apple trees planted in typical orchard rows. Crab apple trees dot the surrounding area and buildings.
DESCRIPTION OF MAJOR BUILDING FUNCTIONS

ADMINISTRATIVE OFFICES

This area may be located adjacent to, or removed from, the information Center, and on the main floor or second floor. The area will be divided into: (A) reception area for two clerical persons and seating for 6-8 persons; (B) three private administrative offices for the Director, Assistant Director and Food Director; (C) a general file and work room with lavatory.

AUDITORIUM

This area, with a seating of 250 persons, should have fixed theater seats on slant floor, carpeted aisles, minimal stage for lectures, panel discussions, etc. Stage should accommodate a grand piano. Supporting facilities would be ample storage for equipment used on stage; a speaker's lounge (off-stage but also accessible to main hallway) with sofa, desk, and chair for last minute preparation; projection booth for 16mm projection, wide screen television projection and sound system.

BALLROOM AREA

This is a multi-purpose room (or rooms), expandable and contractable by movable walls. Capacity of total area would be 1,000 persons for banquet. Entire area, as one or as many smaller areas, should be accessible to serving

DRAKE UNIVERSITY CENTER
kitchen for food. Service elevators available for large and heavy items. Area will be used for exhibits, both art and non-art. No permanent stage but minimal stage lighting should be provided for two locations at ends of large room where temporary staging would be installed. Adjacent storage for staging, tables, and chairs used in this room must be provided.

BROWSING LIBRARY AND MUSIC LISTENING ROOM

Assuming a multi-storied building, this area should be located on second floor to provide supervisory staff for that level. These two facilities logically go together for effective functioning and staffing. The total area includes a browsing library with comfortable seating for 25 persons (no large study tables), shelf and rack space for 3,000 books, 50 magazines, and 50 newspapers.

EXHIBIT AREAS

A high-security art gallery area with 200 lineal feet of display space should be provided. This area should be designed solely as a gallery, should have only one public access and exit, and should be located where staff can give visual control and supervision.

Generally throughout the building, the interior design and wall surfaces should provide facilities for display. Specific use should be made of lounges, lobbies, wide corridors,
etc. for this purpose. There should be a substantial number of built-in, lockable display cases.

FOOD SERVICE

(A) The public areas would include a cafeteria and a snack bar with an expandable and contractable seating area. Areas could be opened at peak times to permit overflow seating (snack bar to cafeteria, and cafeteria to snack bar). There should be seven to eight smaller rooms with movable walls that could be used as regular expandable space; or as space for meetings, with or without food, self-service or catered. They must be accessible from within and without the main seating area. (B) The Dining Room, or restaurant type area with waiter service, should have seating in an elegant area, carpeted, most conducive to formal use. (C) Supporting space for the public areas including offices, kitchens, bakery, freezers and refrigeration, rooms for dry and cold storage, employee’s dining room, receiving, dishwashing, garbage, can washing, etc, and the serving kitchen for the ballroom would have approximately 12,000 square feet.

LOUNGES

There should be a number of smaller, lockable lounges available for lounge and for programming. There should be three lounges, related to each other and to a serving kitchen.

DRAKE UNIVERSITY CENTER
for receptions and teas. The three should vary in size from 800 sq. ft. to 1,600 sq. ft. This area should be relatively near a major control point for ease of supervision.

MAINTENANCE AREA

Located in the lower floor of the building, the maintenance area should be basically (A) one large area for the minor repair of furnishings and equipment; for headquarters for maintenance and custodial staff; for adequate storage space for equipment used by reservation only such as movie projectors, tape recorders, record players, etc.; and (B) an area for employees lockers and showers.

MEETING ROOMS

There should be meeting room space for a variety of room capacities. Main meeting rooms should be on same level with the auditorium. Most rooms should be divisible with movable walls for flexibility in size and shape. Conference-type rooms should be provided adjacent to Administrative Offices but should have access to main hallway. A similar arrangement should be provided in the student activities area. Larger rooms should have built-in public address system. Adequate storage space for chairs and tables nearby.

DRAKE UNIVERSITY CENTER
RECREATION AREA

One large area, located on ground floor, containing billiard tables, table tennis units, and an area for table games and for vending. Area should be arranged to provide one central control desk for all units within the area, located near main entrance to area, and with complete visual control of the entire area. At control desk, there should be available space for display and sale of goods associated with the main games. The control desk should have controls for all lighting and sound for area and for individual tables. Carpet should be used in lobby and billiard areas.

STUDENT ACTIVITY AREA

This area should be located on an upper floor of the building and should have several meeting rooms in close proximity. (A) The main element of this area would be a small information-type desk with central telephone answering facilities for the area and mail boxes for all student organizations. The personnel at this desk would be the scheduling officer for campus facilities who would also serve as clerical assistance for the Program Director. The area would serve as the main reception area for (B) the Central Program office which would include a private office for the Program Director, a small office for the president of the Center Program Board and a larger office to serve as

DRAKE UNIVERSITY CENTER
headquarters and work space for other Program Board
officers, committee chairmen, and committee members. (C)
Adjacent to the Program Director's office and the main student
activity area would be a conference room. (D) Directly
accessible from the desk area should be a room with machines
for spirit duplication, mimeograph, and direct copy.

VENDING AREA

Vending should be confined to three locations—the
recreation area, the student activity area and a main vending
area. The main area should be capable of fifteen machines.
This area, located on a lower floor, can be (1) a separate
area, (2) included as a special part of the main food service
area, or (3) located in a direct relation to, but not as a
part of, the recreation area. (Eliminating the special vending
facilities there.)

LOCKER AREA

Space for lockers of varying sizes, (in addition to those
needed in the recreation area). They should be placed for
easy access but in unobtrusive locations.

STORAGE

General and special storage areas, excluding areas for
storage of food will require approximately eight per cent of
the net area of the building, exclusive of food services area.

DRAKE UNIVERSITY CENTER
ZONING LIMITATIONS AND RESTRICTIONS

EXIT REQUIREMENTS

a. Number
   1. Every story having an occupant load of 500-999 - not less than 3 exits
   2. Every story having occupant load of 1000 or more - not less than 4 exits
   3. Number of exits required from any story determined by using occupant load of that story plus percentage of occupant load of floors which exit through that level - 50% of occupant load in first adjacent story above and below.

b. Width
   Total width in feet not less than total occupant load served divided by 50 - divided equally between separate exits.

c. Distance to exits
   Unsprinklered building - 150'
   Sprinklered building - 200'

d. Exits may pass through adjoining rooms except kitchens, storerooms, rest rooms, closets.

DOORS

a. Exit doors shall swing in direction of exit when
serving an occupant load of 50.

b. Width height

No less that 3' (more than 4'), no less than 6-8' high

c. Revolving, sliding and overhead doors cannot be used

CORRIDORS AND EXTERIOR EXIT BALCONIES

a. Width - no less that 44\(^\text{\textprime}\)\(^\text{\textquoteright}\). Height - no less that 7\(^\text{\textprime}\) 0\(^\text{\textquoteright}\)

b. Doors should not reduce required width by more than one-half

c. Construction

Walls and ceilings of corridors serving an occupant load of 30 or more, not less than 1-hour, fire-resistant construction.

d. Openings

Where 1-hour fire-resistant construction is required every opening shall be protected with a smoke or draft stop fire assembly with a rating not less that 20 minutes. No closers required.

STAIRWAYS

a. Width

More than 50 occupants - 44\(^\text{\textquoteright}\) minimum

50 or less - 36\(^\text{\textquoteright}\) minimum

Handrails may project 3\(^\text{\textquoteright}\) on each side

b. Risers - no more than 7\(^\text{\textquoteright}\); Treads not less than 10\(^\text{\textquoteright}\)

DRAKE UNIVERSITY CENTER
maximum variation in riser height and tread width no more than 3/16th"

c. Circular stairs may be used as exit if minimum tread is not less than 10" and smaller radius is not less than twice the width of the stairway
d. Landings - shall have a dimension measured in the direction of travel equal to the width of the stairway

1. Shall not be reduced in width by more than 3/4" by an open door

2. Not more than 12' vertically between landings
e. Handrails - on each side - 30-34" above nosing of treads
f. Stairway construction - interior - Table 17a National Building Code
g. Stairway construction - exterior - shall be of non-combustible material
h. Headroom 6'6"

EXIT ENCLOSURES

a. Enclosure walls shall be of not less than 2-hour fire-resistive construction in buildings more than 4 stories and not less than 1-hour fire-resistive construction elsewhere

b. No openings into exit enclosures except exit doorways

DRAKE UNIVERSITY CENTER
and openings in exterior walls

1. Exit doors shall have 1-hour fire rating where 1-hour shaft construction is permitted
2. Doors shall be self-closing or automatic closing with a combustion detector.

EXITS - GROUP A OCCUPANCIES

Every Group A Occupancy shall have a main exit. Main exit shall be of sufficient width to accommodate total occupant load but shall not be less than total required width of all aisles, exit passageways and stairs leading to it and shall connect to a stair leading to a public way.

SANITATION REQUIREMENTS - GROUP A OCCUPANCIES

Shall be at least one lavatory for each two water closets for each sex and at least 1 drinking fountain for each floor.

Minimum Number of Water Closets

<table>
<thead>
<tr>
<th>No. People</th>
<th>Total Required Number Water Closets</th>
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<tbody>
<tr>
<td>1-30</td>
<td>.1</td>
</tr>
<tr>
<td>31-60</td>
<td>.2</td>
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<tr>
<td>61-100</td>
<td>.3</td>
</tr>
<tr>
<td>101-150</td>
<td>.4</td>
</tr>
<tr>
<td>151-200</td>
<td>.5</td>
</tr>
<tr>
<td>201-275</td>
<td>.6</td>
</tr>
<tr>
<td>276-375</td>
<td>.7</td>
</tr>
<tr>
<td>376-500</td>
<td>.8</td>
</tr>
</tbody>
</table>

- In male toilet rooms 75% of water closets may be replaced by urinals
- Not less than 1 lav/Bwc
  Never less than 1 lav/toilet room

DRAKE UNIVERSITY CENTER
<table>
<thead>
<tr>
<th>No. People</th>
<th>Total Required Number Water Closets</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 or more</td>
<td>1 wc added for each 200 persons or fraction thereof</td>
</tr>
<tr>
<td>Facility</td>
<td>Area</td>
</tr>
<tr>
<td>--------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Administrative Offices</td>
<td></td>
</tr>
<tr>
<td>(2) Offices 250 sq. ft.</td>
<td>500 sq. ft.</td>
</tr>
<tr>
<td>Reception-information area</td>
<td>300</td>
</tr>
<tr>
<td>File and work room</td>
<td>250</td>
</tr>
<tr>
<td>Conference room</td>
<td>225</td>
</tr>
<tr>
<td>(1) Office 200 sq. ft.</td>
<td>200</td>
</tr>
<tr>
<td>Storage</td>
<td>120</td>
</tr>
<tr>
<td>Auditorium</td>
<td></td>
</tr>
<tr>
<td>Main hall</td>
<td>2,000</td>
</tr>
<tr>
<td>Storage</td>
<td>200</td>
</tr>
<tr>
<td>Projection room</td>
<td>175</td>
</tr>
<tr>
<td>(2) Vestibules</td>
<td>100</td>
</tr>
<tr>
<td>Ballrooms</td>
<td></td>
</tr>
<tr>
<td>(1) Hall 5,000 (A)</td>
<td>5,000</td>
</tr>
<tr>
<td>(1) Hall 2,000 (B)</td>
<td>2,000</td>
</tr>
<tr>
<td>Pre-function room</td>
<td>2,000</td>
</tr>
<tr>
<td>Storage</td>
<td>1,000</td>
</tr>
<tr>
<td>Lounge</td>
<td>900</td>
</tr>
<tr>
<td>Pantry</td>
<td>900</td>
</tr>
<tr>
<td>Board room</td>
<td></td>
</tr>
<tr>
<td>Meeting room</td>
<td>800</td>
</tr>
<tr>
<td>Lounge</td>
<td>180</td>
</tr>
<tr>
<td>Center and Student Activities</td>
<td></td>
</tr>
<tr>
<td>Student Activities</td>
<td>850</td>
</tr>
<tr>
<td>workroom</td>
<td>400</td>
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<td>Student organizations</td>
<td>308</td>
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<tr>
<td>(2) Student offices 80</td>
<td>160</td>
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<tr>
<td>Center conference room</td>
<td>180</td>
</tr>
<tr>
<td>Board office</td>
<td>250</td>
</tr>
<tr>
<td>Assistant office</td>
<td>200</td>
</tr>
<tr>
<td>Reception area</td>
<td>125</td>
</tr>
<tr>
<td>Lockers</td>
<td>100</td>
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**DRAKE UNIVERSITY CENTER**
<table>
<thead>
<tr>
<th>FACILITY</th>
<th>AREA</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage</td>
<td>0.75 sq. ft.</td>
<td>2,948 sq. ft.</td>
</tr>
<tr>
<td>Dining</td>
<td></td>
<td>8,205 sq. ft.</td>
</tr>
<tr>
<td>Cafeteria Dining</td>
<td>3,500 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>Rathskellar</td>
<td>2,000 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>(3) Private dining @ 3601,080</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(3) Private dining @ 275</td>
<td>825 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>(1) Private dining</td>
<td>800 sq. ft.</td>
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</tr>
<tr>
<td>Food Service</td>
<td></td>
<td>4,865 sq. ft.</td>
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<tr>
<td>Preparation</td>
<td>1,800 sq. ft.</td>
<td></td>
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<tr>
<td>Scramble</td>
<td>950 sq. ft.</td>
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</tr>
<tr>
<td>Dish washing</td>
<td>600 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>Short order</td>
<td>360 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>Check out</td>
<td>300 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>Storage</td>
<td>200 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>Refrigeration/freezer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dairy</td>
<td>120 sq. ft.</td>
<td></td>
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<tr>
<td>Vegetable</td>
<td>120 sq. ft.</td>
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<tr>
<td>Freezer</td>
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<tr>
<td>Meat</td>
<td>120 sq. ft.</td>
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<tr>
<td>Office</td>
<td>100 sq. ft.</td>
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<tr>
<td>Office</td>
<td>75 sq. ft.</td>
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</tr>
<tr>
<td>Gallery</td>
<td>0.200 sq. ft.</td>
<td>200 sq. ft.</td>
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<tr>
<td>Mailing Rooms</td>
<td></td>
<td>3,000 sq. ft.</td>
</tr>
<tr>
<td>(4) @ 600 sq. ft.</td>
<td>2,400 sq. ft.</td>
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<tr>
<td>Storage</td>
<td>0.600 sq. ft.</td>
<td></td>
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<tr>
<td>Maintenance</td>
<td></td>
<td>960 sq. ft.</td>
</tr>
<tr>
<td>Garbage gobbler</td>
<td>170 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>Staff dressing room (men's)</td>
<td>220 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>Staff dressing room (women's)</td>
<td>220 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>Janitor's storage</td>
<td>200 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>(2) Janitor's closets @ 75</td>
<td>150 sq. ft.</td>
<td></td>
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</tbody>
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DRAKE UNIVERSITY CENTER
<table>
<thead>
<tr>
<th>FACILITY</th>
<th>AREA</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical</td>
<td>2,000 sq. ft.</td>
<td>2,000 sq. ft.</td>
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<tr>
<td>Recreation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Games and pool</td>
<td>4,000 sq. ft.</td>
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</tr>
<tr>
<td>Lounge</td>
<td>1,400</td>
<td></td>
</tr>
<tr>
<td>Storage</td>
<td>1,000</td>
<td></td>
</tr>
<tr>
<td>Browsing library</td>
<td>700</td>
<td></td>
</tr>
<tr>
<td>TV room</td>
<td>500</td>
<td></td>
</tr>
<tr>
<td>Music</td>
<td>700</td>
<td></td>
</tr>
<tr>
<td>Vending</td>
<td>280</td>
<td></td>
</tr>
</tbody>
</table>

DRAKE UNIVERSITY CENTER
MECH
1080 φ

ELEV.
MCH 830
ELEV.
MX 85

STAFF
♂ 220
STAFF
♀ 220
JAN/SICK
140
GCEZLER
170
JAN
40

MEN
♂ 170
WOMEN
♀ 132

DISHW/6
685 φ

MEN
120 φ
FREEZE
120 φ
VEG
120 φ
DAIRY
120

KIT/STOR
♂ 220
KIT OFFICE
♀ 110
KIT OFFELA

DRAKE UNIVERSITY CENTER
SIBLIOGRAPHY


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Municipal Code of Des Moines

DRAKE UNIVERSITY CENTER
STATEMENT OF PHILOSOPHY

The Drake University Center should be designed to be the focal point for the campus community; equipped to handle social, cultural and recreational programs for the entire university family--students, faculty, administration, alumni and guests.

The Center should provide facilities for physically and mentally stimulating extra-curricular activities; should provide student organizational work space; should encourage student participation in self-government; and should afford opportunities for cultural and intellectual growth and development through exposure to the world of creative arts. This Center should be the common meeting ground to encompass organizational and individual student activities.

The purpose of the University Center is to make facilities available and then to program their use. As part of the total educational focus of Drake University, the Center program will supplement the academic activities and foster informal associations among students, faculty, and others outside the classroom.

Thus, the Center will serve as a unifying force in the life of Drake students, enhancing the programs of

DRAKE UNIVERSITY CENTER
the university and cultivating regard for and loyalty to the university.
CRITERIA AND GUIDELINES FOR DRAKE UNIVERSITY CENTER
CIRCULATION PLAN

1. The system should be composed of a combination of peripheral and penetrator routes which serve campus buildings, give access to parking, and encourage through-traffic to bypass the campus.

2. The system should have a clearly defined hierarchy of:

   a. Major approach routes
   b. Peripheral circulation routes (major circulators)
   c. Penetrator streets (minor circulators)
   d. Service routes or local access streets

3. The system should be efficiently connected with major city arterials. Access to the campus should be provided via entrances spaced at quarter-mile intervals along the major arterials to coordinate university and through traffic movements with the traffic signal systems.

4. Entrances to the campus should be properly designed, clearly defined, and limited in number.

5. Campus buildings which serve public events should be conveniently connected to the city arterials.

6. The circulation system should preserve adjacent areas from intrusion of university traffic.
7. The major components of the circulation system should avoid crossing major pedestrian linkages; pedestrian-vehicular conflicts should be minimized.

8. Adequate truck service must be provided to all buildings. Loading facilities should be in off-street locations and access to loading areas should not conflict with significant pedestrian movements.

9. Where possible, loading dock consolidation should be used in building complexes to simplify access, reduce space needs, and reduce duplication of facilities.

10. In carefully controlled cases, service roads may be used as pedestrian walkways.
LOCAL CODE COMPLIANCE OUTLINE: CITY OF DES MOINES

The building will be Type B2 occupancy and Type II construction. It has a basement, first and second floor with a gross area per floor of 25,000 sq. ft. Mechanical equipment will be placed on the roof between longitudinal trusses. By Section 3601 D, para. 3 (Uniform Code), mechanical penthouse will be of non-combustible material and need not be fireprotected. By para. 3305 (a) stairway to mechanical level is optional.

Three exit stairs each five feet in width will come to grade from the upper floor. The central stair will be 88 inches wide and will be treated as a vertical shaft. It will descend to the middle level and the lower level where it will be enclosed by "B" label magnetic hold-open doors on these levels respectively. (The magnetic hold-opens will be tied to the smoke detection system for the building.) The upper level will be open to the lobby with two open stairs to lobby level.

The north, east and west end of the basement will exit to grade. The basement will be sprinklered. Upper two levels will have standpipe and 75 feet maximum hose connections. Fire access provided on upper floors according to CH 38028. The building will have a smoke detection system.

DRAKE UNIVERSITY CENTER
It will have a fire alarm system and hood extinguishers in the kitchen area.
BOOKSTORE

This area should be designed to provide for textbooks and all supplies required of students enrolled at the university. Further, there should be many sundry items and a limited gift section. This unit should be located in an area that could expand and contract for textbook storage and sales at the beginning of each term. This would be 20,000 square feet. (This is a specialized area and a special consultant should be retained for the specific and detailed planning of this facility. There are consultants who specialize in bookstores associated with university centers.)

CRAFT SHOP - PHOTOGRAPHIC DARKROOM

Area should be located on ground floor, in reasonable traffic flow. These two facilities should be related to each other for ease of staff supervision. The (A) Crafts Shop (1,050 sq. ft.) will be divided into (1) a general crafts room (880 sq. ft.) for metal, wood, plastics, leather, lapidary and other small crafts; (2) a ceramics room (80 sq. ft.); (3) an office (40 sq. ft.); and (4) a supply and stockroom (50 sq. ft.). The (B) Photographic Darkroom (225 sq. ft.) should provide space.
for ten persons working simultaneously. The darkroom should be accessible from the main hallway but adjacent to the craft shop.

GUEST ROOMS

Eight to twelve twin-bedded rooms (one to a suite) with private bath. Reasonably accessible from the Information Center. The 3,000 sq. ft. area should have direct access to the exterior of building in order that guests may come and go at all hours when building is not open, without exposing entire building.

INFORMATION CENTER

Located near the main entrance, this 1,000 sq. ft. facility creates a heavy traffic pattern and serves as the public focal point for the entire building. The units of the area are (A) the Information Desk (100 sq. ft.), a portion of which should be designed as a ticket office with appropriate partitions, ticket storage space, cash drawers, etc.; (B) a checkroom (150 sq. ft.) for approximately 500 coats which should be accessible to both the Information Desk and the main hallway; (C) a meeting room used for that purpose normally, should
be adjacent to the checkroom to serve as overflow space for special peak periods (360 sq. ft.); (2) a Reservations Office (240 sq. ft.), accessible to the Information Desk and the main hallway, should have space for two clerical persons, minimal filing, and seating for four visitors; (3) an area (150 sq. ft.) for the central sound system for the building, providing for paging, if desired, and channels for AM, FM, and recorded music played at this station; and for adequate storage space adjacent to the Information Desk for an effective Lost and Found operation, art lending station, and other miscellaneous services.

LOUNGES

There should be two lounges, related to each other and to a serving kitchen, for receptions and teas. The two should vary in size from 800 sq. ft. to 1,200 sq. ft. This area should be relatively near a major control point for ease of supervision. Total area will be 2,000 sq. ft.

OUTING HEADQUARTERS

Located in less prime space, this area could be in the basement but should have easy access to the outdoors. This area should be unfinished with the thought that the groups and clubs using it would finish the area themselves.

DRAKE UNIVERSITY CENTER
Ample electricity, air, and plumbing should be available.

VENDING AREA

Vending should be confined to three locations: the Recreation Area; the Student Activity Area; and a main vending area. The main area should be capable of fifteen machines. This 1,000 sq. ft. area, located on a lower floor, can be (1) a separate area, (2) included as a special part of the main food service area; or (3) located in a direct relation to, but not as a part of, the Recreation Area (eliminating the special vending facilities there.)
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