Services to Students with Disabilities
Disaster Emergency Preparedness Plan for People with Disabilities

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I. GUIDELINES FOR PEOPLE WITH DISABILITIES IN EMERGENCIES

A. Evacuation of people with disabilities will be given the highest priority in all emergencies. In an emergency situation, it is important that you are familiar with your needs during evacuation. You are encouraged to convey these needs to your instructor at the beginning of each semester. While attending class, try to position yourself near a doorway for an easier exit. Become familiar with the building and its exits. Follow signs to exits. The following guidelines are important to follow:

1. Establish a buddy system and alternate for each class. People with disabilities should prepare for an emergency ahead of time by instructing a classmate, instructor, supervisor, or co-worker on how to assist in the event of any emergency.
2. If assistance is not immediately available, disabled people should remain near the stairwell landing or in the elevator lobby. Rescue personnel will first check all exit corridors and stairwells for those trapped. S/he should continue to call for help until rescued.
3. People who cannot speak loudly, or with voice / speech impairments, should carry a whistle or have other means of attracting attention of others.
4. Be familiar with alarm signals.
5. Leave school materials in the room to avoid wasting time.
6. Wait for rescue & remain calm.
7. DO NOT re-enter a building until permitted by emergency personnel.

B. If you suspect a fire is behind a door; cover your hand to provide protection, first and then test the door by touching it. If it is hot then do NOT use the door as an exit. Try to find an alternate route for an exit.

C. Elevators: Do NOT use elevators unless authorized to do so by police or fire personnel. Elevators could fail during a fire, earthquake or flood.

II. EVACUATION POLICY FOR PEOPLE WITH DISABILITIES

BUILDING COORDINATORS and volunteers should familiarize themselves with these procedures in order to assist in planning for the evacuation of people with physical and sensory disabilities.

A. IN ALL EMERGENCIES, AFTER AN EVACUATION HAS BEEN ORDERED:

1. Evacuation of people with disabilities will be given the highest priority in all emergencies and will be evacuated if possible. Evacuating a disabled or injured person by only one person with no assistance is a last resort.
2. Attempt a rescue evacuation ONLY if you have had rescue training.
3. Check on people with special needs during an evacuation, determine if they have established a "buddy system," and ensure their safe evacuation.

4. Always ASK someone with a disability how you can help BEFORE attempting any rescue technique or giving assistance. Ask how he or she can best be assisted or moved, and whether there are any special considerations or items that need to come with the person.

5. If the situation is life threatening, call 911.

6. Do NOT use elevators, unless authorized to do so by police or fire personnel. Elevators could fail during a fire, earthquake or flood.

B. EMERGENCY RESPONSES BY DISABILITY

1. BLINDNESS OR VISUAL IMPAIRMENT
   a. Most visually impaired persons will be familiar with the immediate area they are in and may have learned locations of exits and fire alarms in advance.
   b. Tell the person the nature of the emergency and offer to guide him/her by offering your left/right elbow (this is the preferred method when acting as a "Sighted Guide"). Do NOT grasp a visually impaired person’s arm.
   c. Give verbal instructions to advise about the safest route or direction using compass directions, estimated distances, and directional terms or information (i.e., elevators cannot be used or if there is debris or a crowd.)
   d. As you walk, tell the person where you are and advise of any obstacles, e.g. stairs, overhanging objects, uneven pavement, curbs, narrow passageways.
   e. When you have reached the designated Emergency Assembly Point, orient the person to where he/she is and ask if any further assistance is needed.
   f. Some individuals may have dog guides that may be disoriented during the emergency, and may require additional assistance.
   g. White canes and other mobility aids should NOT be left behind.

2. DEAFNESS OR HEARING LOSS
   a. Most structures are not equipped with visual (flashing light) evacuation alarms and persons with impaired hearing may not perceive an emergency exists. An alternative warning technique is required. Two (2) methods of warning are:
      1. Write a note stating what the emergency is and what the evacuation route is -i.e. "Fire - go out the rear door to Parking Lot".
      2. Turn the room lights on and off to gain attention - then indicate through hand gestures or writing (i.e. on a blackboard) what is happening and where to go.
b. Offer visual instructions to advise of safest route or directions by pointing toward exits or evacuation map.
c. People who cannot speak loudly, or with voice/speech impairments, may be carrying a whistle or have other means of attracting attention of others.

3. MOBILITY IMPAIRMENTS
   a. Mobility-impaired persons should NOT be evacuated by untrained personnel unless the situation is life-threatening. It may be necessary to help clear the exit route of debris (if possible) so that the person with a disability can move out or to a safer area.
   b. If people with mobility impairments cannot exit, they should move to a safer area, e.g., most enclosed stairwells, or an office with the door shut which is a good distance from the hazard (and away from falling debris in the case of earthquakes.)
   c. Notify police or fire personnel immediately about any people remaining in the building and their locations.
   d. Police or fire personnel will decide whether people are safe where they are, and will evacuate them as necessary.
   e. If people are in immediate danger and cannot be moved to a safer area to wait for assistance, it may be necessary, only if you have had rescue training, to evacuate them using an evacuation chair or a carry technique. Carrying options include using a two-person lock-arm position, or having the person sit in a sturdy chair - preferably with arms. Before taking action, always ask the person their preferred method of assistance. Refer to the following illustrations for evacuation options. Check with the BUILDING COORDINATOR for the availability of an evacuation chair if needed.

4. PEOPLE USING CRUTCHES, CANES OR WALKERS

The same procedure outlined for the Mobility Impaired should be used. Crutches, canes and walkers should NOT be left behind.

5. NON-AMBULATORY
   a. Most non-ambulatory people will be able to exit safely without assistance out of single story buildings.
   b. All 2+ story buildings will require persons to be carried out if evacuation assistance is required, always ask the person what method of assistance they prefer. Some people have minimal ability to move and lifting them may be dangerous to their well being. If the person prefers to be moved in their wheelchair see illustrations and procedures for Bumping On
a Series of Steps. (See Attachment A.) (The wheelchair user will be carried facing away from the stairs.)
c. Some people have no upper trunk or neck strength to assist in being carried out. If a seatbelt is available, secure the person if use of a chair is the method employed to carry the person to safety.
d. If moving a person more than three (3) flights, a "relay team" arrangement is needed. If a wheelchair is left behind, do NOT leave it in an exit path or doorway to become an obstacle.
e. Wheelchairs have many movable weak parts which were not constructed to withstand the stress of lifting (e.g., the seatbar, footplates, wheels, movable armrests - see illustrations and Wheelchair Nomenclature attached) (See Attachment B.)
f. Frequently, non-ambulatory persons have respiratory complications or rely on electric artificial respirators. They should be given priority assistance if there is smoke or fumes, as their ability to breathe is seriously in danger.
g. Power wheelchairs may have heavy batteries, which are difficult to remove. In this situation, the best response may be to ask the person to transfer to an evacuation chair, if one is available, so that they can be moved immediately. If it is not possible for the person to be removed from the chair (i.e., if the person uses respiratory equipment that is attached to the chair), wait for assistance. If attempting to move a power wheelchair, remove the batteries. Make sure the footrests are locked, the motor is off, and it is in neutral gear. Some power wheelchairs and scooters may not have heavy battery packs, and may be moved with little difficulty.
h. If the person prefers to be removed from their wheelchair, their needs and preferences will vary. Always consult the person as to his/her preference with regard to:
   1. Ways of being removed from a wheelchair
   2. The number of people needed for assistance
   3. Whether to extend or move extremities when lifting because of pain, catheter leg bags, spasticity, braces, etc.
   4. If a seat cushion or pad should be brought along with him/her if he/she is removed from the wheelchair
   5. Being carried forward or backward on a flight of stairs.
   6. After-care. If a person is removed from the wheelchair (i.e. a stretcher, chair with cushion pad, or car seat) perhaps paramedic assistance might be needed
i. The person will want their wheelchair retrieved as soon as possible. The wheelchair is essential to the person's mobility
and should be given a high priority to be retrieved as soon as possible. Inform Public Safety of the location of wheelchairs to be retrieved.

C. POWER OUTAGES:
1. If an outage occurs during the day and people with disabilities choose to wait in the building for electricity to be restored, they can move near a window where there is natural light and access to a working telephone. During regular building hours, BUILDING COORDINATORS should be notified so they can advise emergency personnel.
2. If people would like to leave and an evacuation has been ordered, or if the outage occurs at night, call Public Safety at 911 from a campus telephone to request evacuation assistance.
3. Some multi-button campus telephones may not operate in a power outage, but single-line telephones and pay telephones are likely to be operating. As soon as information is available, the campus emergency information line (911) will have a recorded message stating when power is likely to be restored. (University of California, Berkeley, Office of Emergency Preparedness, Evacuation Policy for People with Disabilities, November 22, 1993, Berkeley, California)

III. EMERGENCY EVACUATION TIPS AND OVERVIEW

Evacuation is difficult and uncomfortable for both the rescuers and the people being assisted. Some people have conditions that can be aggravated or triggered if they are moved incorrectly. Remember that environmental conditions (smoke, debris, loss of electricity) will complicate evacuation efforts.

The following guidelines are general and may not apply in every circumstance.

A. Occupants should be invited to volunteer ahead of time to assist disabled People in an emergency. If a volunteer is not available, designate someone to assist who is willing to accept the responsibility.
B. Volunteers should obtain evacuation training for certain types of lifting techniques through the Office of Environmental Health and Safety (EHLS)in coordination with the Student Health Center, Public Safety and SSWD.
C. Two or more trained volunteers, if available, should conduct the evacuation and relay teams established if the evacuation is more than three flights.
D. Always ASK disabled people how you can help BEFORE attempting any rescue technique or giving assistance. Ask how they can best be assisted or moved, and if there are any special considerations or items that need to come with them. Lifting a person may be harmful. Ask their preference about being carried forward or backward down a flight of stairs. Ask whether a seat cushion or pad should be brought along. Wheelchairs were
not designed to handle the stress of lifting. Batteries may have to be removed and life support equipment could be connected.

E. Before attempting an evacuation, volunteers and people being assisted should discuss how any lifting will be done and where they are going.

F. Proper lifting techniques (e.g., bending the knees, keeping the back straight, holding the person close before lifting, and using leg muscles to lift) should be used to avoid injury to rescuers' backs. Ask permission of the evacuee if an evacuation chair or similar device is being considered as an aid in an evacuation. When using such devices, make sure the person is secured properly. Rest at landings if necessary.

G. Certain lifts may need to be modified depending on a person's disability.

H. Persons who must be taken out of the wheelchair to be transported can be carried by: (See Attachment C.)
   1. Pack-Strap Carry: Initiate the technique at the top of a flight of stairs where the carrier can use the handrail for support in lifting.
   2. If the student has no arm strength or is less than half the carrier's weight, use the "cradle", similar to the technique used when picking up a small child.

I. A straight back chair or evacuation chair requires at least three strong people are available who can control the chair (if the person agrees to this method.)

SUMMARY:

Prepare occupants in your building ahead of time for emergency evacuations. Know your building occupants. Train staff, faculty, and students to be aware of the needs of people with disabilities and to know how to offer assistance. Hold evacuation drills in which occupants participate, and evaluate drills to identify areas that need improvement. Develop plans that cover regular working hours, after hours, and weekends.

Everyone needs to take responsibility for preparing for emergencies. People with abilities should consider what they would do and whether they need to take additional steps to prepare.

At alarm, options are:

   1. In an extreme emergency, leave the building immediately and notify emergency personnel of a disabled person needing assistance.
   2. In a moderate emergency, help the disabled person to your department's area of safe refuge assembly point, leave the building, and notify emergency personnel of a disabled person needing assistance.
   3. Assist the disabled person to evacuate.

After "all clear":


Send an E-mail to your BUILDING COORDINATOR about things which might need to be improved.

IV. EMERGENCY PROCEDURES FOR MULTI-FUNCTION BUILDINGS

The following information is designed to offer some generic guidance in designing an emergency evacuation plan that takes into account persons with disabilities who may be in the building. It is applicable to buildings that have both offices and classrooms in them. It will need to be modified to address unique aspects of some buildings and the personnel located in the building. These procedures, regardless of the type of emergency, do not provide for all possible emergency scenarios. Please take the time to read and become familiar with its contents. Administrators, Faculty or Staff are responsible for directing evacuation from their work area, depending on the building and circumstances.

The designated emergency BUILDING COORDINATOR and other appropriate personnel should be familiar with this Disabled Emergency Preparedness Plan, provide a hard copy of the building plan and display the escape routes in a prominent location, with emergency personnel's names and extensions. At least two (2) routes out of the building should be identified so as to have a back-up route if the other one is blocked. The two routes should not involve the use of elevators. Most elevators are designed to stop operating when the alarm is sounding and are not safe during fires, earthquakes and floods. (Please refer for more specific details to: Department of Public Safety's "A Guideline for Department Disaster Emergency Preparedness Plans At California State University, Sacramento" 1997; Facility Management's "Flood Preparation Information, "California State University, Sacramento: Multihazard Emergency Plan" dated November 20, 1997)

A. Prior to an emergency, the BUILDING COORDINATOR will:
   1. Develop a plan to communicate with Public Safety during the emergency and a plan to accommodate anyone who might be injured or trapped during an emergency.
   2. Give Public Safety the avocation of individuals with disabilities who are permanently assigned to the building. (This information will come from the FLOOR COORDINATORS).
   3. Determine a place for those evacuating the building to meet (Emergency Assembly Point). The FLOOR COORDINATORS need to know the location of the evacuation destination. For information on the safer areas in your building, call the Public Safety Office at x 86851.
   4. Know primary and alternate routes of evacuation.

B. Prior to an emergency the FLOOR COORDINATORS will:
   1. Identify faculty and staff with disabilities who are permanently assigned to space on each coordinator's floor. Relay the location of
these individuals to the BUILDING COORDINATOR.

2. Develop a system of communicating with persons with hearing impairments who are permanently assigned to the building (hand signals or written instructions on cards). Offices and desks for individuals with impaired hearing need to be equipped with Deaf Smoke (strobe A vibrating) Alarm, Closed Captioning Decoder, and Telecommunication Devices for the Deaf (TJ3D's) that ensure effective communication with others. Telephone emergency services, including 911 services, must provide direct access to individuals who use TDD's and computer modems, as required by Americans with Disabilities Act (ADA).

C. In the event of an emergency the BUILDING COORDINATOR will:
   1. Call 911 right away and give a description and location of the emergency. In case of fire, pull one of the fire alarms.
   2. Inform the FLOOR COORDINATORS of the nature of the emergency. As long as it is safe to do so, the building coordinator will remain in their office to maintain liaison with Public Safety during the emergency.
   3. When all FLOOR COORDINATORS have indicated their floors are vacant or when the building is no longer safe, go to the evacuation destination.

D. In the event of an emergency the FLOOR COORDINATORS will:
   1. Call 911 right away and give description and location of emergency.
   2. Notify all individuals on the floor of the nature of the emergency, the direction they should go to evacuate and where to go once they have left the building. In the case of class rooms and lecture halls this information will be given to the instructor.
   3. If there is no immediate danger, consider leaving disabled student or employee where he or she is, and immediately inform the BUILDING COORDINATOR or Public Safety of the student's location, or call 911 for assistance. In a life-threatening situation, where immediate evacuation is necessary, the following options may be exercised:
      a. Personally assist the student down the stairs. Some crutch and cane users may be able to use the stairs and some may not. Please ask them.
      b. Judgment will need to be exercised in certain situations. For example, badly hurt individuals should not normally be moved, but there might be a greater danger to the individual if (s)he is not moved, as in the case of a fire.
   4. Once they have notified everyone on the floor to evacuate, notify the BUILDING COORDINATOR of people with disabilities or injuries who were not able to evacuate. Give the BUILDING COORDINATOR a description of the individuals and their location.
Once the floor is evacuated, notify the BUILDING COORDINATOR and go to the evacuation destination.
5. Do not stay in the building any longer than it is safe to do so.

Wait for further direction from the BUILDING COORDINATOR or from Public Safety before re-entering the building.

Goodin, George (Sam), Emergency Procedures for Multi-function Buildings, January 1996, University of Michigan, Ann Arbor, Michigan

SSWD Site Map
Return to SSWD Main Page
Return to the CSUS Home Page
Attachment A

BUMPING ON A SERIES OF STEPS

In situations where the wheelchair user must be carried up or down a flight of steps it is desirable to have a minimum of two assisting persons, with four assisting person preferred for adults or heavy persons. The strongest person(s) should be placed at the back of the chair, It is also advisable to check to see if anyone has any physical condition that contraindicates lifting, such as heart condition or back problems.

PROCEDURE:

1. The wheelchair should be gripped by the handles on the back of the chair. If two people are assisting, one holds the hand grips; the other assists in front. If there are four, at least two assist in the back; each person gripping one of the handles. Where the other assisting person grips depends upon which parts of the chair are removable. If the wheelchair arms are removable, do NOT grip them. This must be stressed because it is the first place an assisting person will grip. If the leg rests are removable, do NOT grip them. The assisting person(s) who will be in front should grip a part of the wheelchair which is not removable, such as the front seat frame or leg rest (if not removable).

2. DO NOT carry the wheelchair up or downstairs. This is the quickest way to back trouble for the uneducated or unheeding. ROLL the wheelchair up or down the stairs. Let the wheelchair carry the weight, not the back of the assisting person.

3. Keep the wheelchair slightly tilted back to keep the wheelchair user secure. However, do not tilt too far; this makes the assisting person(s) behind the wheelchair bend too far forward; this could cause the person(s) to lose balance and pitch forward.

4. Always keep the wheelchair user facing away from the stairs.
Attachment B

WHEELCHAIR NOMENCLATURE

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<td>Armrests</td>
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<td>2.</td>
<td>Wheel Locks</td>
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<td>3.</td>
<td>Wheel and Handrim</td>
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The following represents the varying weights, lengths, and widths of wheelchairs, both electric and manual, with person in it. The American National Standards Institute states that doorway widths should be 32 inches.

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<tr>
<th>WEIGHT</th>
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<tr>
<td>200 Pounds</td>
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<td>360 Pounds</td>
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<td>375 Pounds</td>
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GENERAL OPERATIONAL GUIDE
HOW TO OPEN/FOLD WHEELCHAIRS
**TO OPEN CHAIR:** Tilt chair to one side, push down on seat rails (fig 1).

**TO FOLD CHAIR:** Fold up the footplates, tilt chair to one side, lift upward on seat rail or on upholstery next to seat rail. For chairs with detachable or offset arms (fig.2), fold by lifting carrying straps.

![Figure 2](image2)

**PROCEDURE:**

1. Remove the seat cushion, back rest, or any other such additional equipment.
2. Push heel straps (clips, leg rests, etc.) forward and fold the foot plates up. (see figure 3).
3. If seat straps are available (loops attached to either side of seat frame), grip both straps and pull up. If seat straps are not available, grip the center, front and back edges, of the seat and pull up. This should fold the wheelchair in half. Kept the seat pushed down between the frames and the back rest pushed back. This will allow for optimal closure.

**CURBS AND SINGLE STEPS:** There are generally two methods which can be used to assist a person in a wheelchair over a curb or single step. The wheelchair can be rolled down off the curb, or the step: backwards or forwards, Which method used depends upon the preference of the user, the environmental situation, the strength of the assisting person, and the confidence the wheelchair user has in the assistant. As in all activities, if the wheelchair user does not have sitting balance, a seat belt should be attached to the wheelchair and used.
A. BACKWARD: The least taxing method on the assisting person and usually the safest for the wheelchair user, is to turn the wheelchair around until it can be rolled off the step or curb backwards.

![Figure 4. When the wheelchair is being rolled backwards off a curb, support it by lightly pressing against it.](image)

**PROCEDURE:**

1. Just before reaching the edge of the curb or step turn the wheelchair around so that it is facing away from the edge.
2. Holding tightly to the handles, back the wheelchair down off the curb. Let the rear wheels roll down over the edge. Additional support can be furnished by pressing a hip against the back of the chair as it comes off of the edge. (See figure 4.)
3. To prevent the front wheels coming down with a jar that could throw the wheelchair user out of the chair, press a foot on the anti-tipping bar as the chair is backed away from the curb. Then gently lower the front wheels to the ground.
4. Turn the wheelchair around, being careful not to clip the ankle of a passer-by and proceed on your way.

B. FORWARD: This method is effective if the assisting person is experienced in handling wheelchairs. It is most useful on crowded street corners and places where the wheelchair can not be turned around to go off an edge backwards. The wheelchair user should have on a safety belt or be holding to the chair to prevent being thrown forward out of the wheelchair.

**PROCEDURE:**

1. As the curb is approached, place one foot on the anti-tipping bar and tip the wheelchair back on the large wheels. This keeps the wheelchair user securely in the chair as the chair rolls off the edge. The assisting person should not be supporting the weight of the wheelchair user, but just keep the wheelchair balanced on the large wheels.
2. Once the front wheels are up, remove the foot from the anti-tipping bar. Continue rolling the wheelchair of the edge with the front wheels up.
3. After the large wheels are off of the edge, allow the front wheels to drop down gently by pressing a foot on the anti-tipping bar as the wheels come down.

ROLLING ON THE REAR WHEELS: Can be used to roll the wheelchair over the following types of terrain: going over railroad tracks and grates embedded in the street or sidewalks; soft lawns, sand, snow, etc., even deep pile carpets. These type of terrain tend to throw the front wheels aside or cause them to sink in, making the progress difficult if not impossible. Lifting the front wheels of the surface gives the assisting person more control over the wheelchair.

If the assisting person is not strong enough (although it actually takes little physical strength if the wheelchair is kept balanced) or doesn’t feel confident, it is advisable to turn the wheelchair around and go backwards over rough terrain, This also puts the front wheels out of the way as they are following rather than guiding the wheelchair. Remember not to tilt the chair too far backwards.
Attachment C

Methods of Assistance

Two handed chair carry

Chair carry
Packstrap carry

Walking Assist

Carry by Extremities
Packsaddle

Each bearer grasps one of his wrists and one of the other bearer's wrists, thus forming a packsaddle