Welcome to the School of Architecture at Southern Illinois University Carbondale! We are very pleased you have chosen to study with us!

This handbook, together with the requirements specified in the Graduate Catalog, constitute the school’s requirements and regulations for students in the Master of Architecture program offered by the School of Architecture at Southern Illinois University Carbondale. Please report any discrepancies you find between the Graduate Catalog and this handbook. The Graduate Catalog’s language will govern over this handbook’s language.

These regulations may change while you are enrolled at the university. You are subject to the rules in effect at the time you started your graduate program of study. If you leave the School of Architecture for a period of time exceeding one semester and then return to complete your degree, you become subject to the rules in effect when you return to your graduate studies.

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**Introduction**

This handbook details the procedures to be followed by students admitted to graduate study in the School of Architecture at Southern Illinois University Carbondale. Some procedures detailed herein are specific to the School of Architecture (School). Students are advised to consult the Southern Illinois University Carbondale [Graduate Catalog](#). Refer to the catalog that applies to the year you entered your graduate studies.

The School offers graduate study leading to the Master of Architecture (M. Arch.) degree. This degree meets the requirements for a first professional degree in architecture as set by the National Architectural Accrediting Board. In 2013, the program was granted an eight-year term of accreditation, the maximum term possible. This program’s next accreditation visit is scheduled to occur in 2021. SIU’s last accreditation report is available for public review on our web site at [www.architecture.siu.edu](http://www.architecture.siu.edu) under Accreditation.

The NAAB’s Conditions for Accreditation (including Student Performance Criteria) are available at [www.naab.org](http://www.naab.org). Students are encouraged to review the Student Performance Criteria for each class. SIUC School of Architecture instructors present the SPCs in each syllabus.

In 2013, SIUC must receive the full six-year accreditation term in order to remain accredited. We are working very hard to ensure we meet this goal and we need our graduate students to partner with us in achieving a successful outcome! We are both stakeholders in the accreditation process, after all.

**Licensure**

The United States does not license architects. This power is delegated to each state, territory, and the District of Columbia. This means there are more than 50 sets of guidelines governing licensure. It is always wise to check the specific requirements for licensure in the state or territory where you plan to practice. Similarly, if you plan to practice in another country, you should check with that country to learn its guidelines for licensure. In general, an NAAB-accredited professional degree in architecture with appropriate work experience and passage of the Architect Registration Exam, qualifies a person to practice architecture throughout the United States.
Registration
Registration at SIU is handled by each student. Graduate students register for classes by seeing our academic advisor, John K. Dobbins, in 413 Quigley Hall. The Graduate School publishes a registration calendar for its students.

If you are a new graduate student you will register for classes no later than the week before they begin. Once you are a continuing graduate student, you may self-register during the advance registration period each semester. Late registration results in a late registration fee and begins on the day classes start. Note: The late registration fee does not apply to Architecture 601.

Full-time enrollment often requires a minimum of 12 credit hours during the fall and spring semesters and six credit hours in the summer semester. Audited courses are not included when counting credit hours. These standards meet financial aid requirements. The Graduate School considers nine credit hours as full-time enrollment. This standard may not meet financial aid requirements.

Options for Graduate Study
In the Master of Architecture program at SIUC, you may select from three options for completing your degree. You may:
- Complete a design thesis project.
- Write a thesis.
- Write a research paper.

A design thesis project is an architecture problem selected by the student. The student defines the problem, writes an architectural program to solve the problem, and executes an architectural design solution. The deadline is set by the School of Architecture. This option is recommended for those seeking to enter architectural practice after completion of this degree. Portions of a design thesis contain written content. Follow the guidelines published by the Graduate School at http://www.siu.edu/gradschl/dtrguide.htm along with the guidelines established later in this document.

A thesis is published by the university and must meet the requirements published by the Graduate School. SIUC uses UMI/ProQuest to publish graduate theses. Graduate School deadlines apply to completion of a thesis. This option is recommended for students who intend to pursue a doctoral degree. Please visit http://www.siu.edu/gradschl/dtrguide.htm for more information on this option.

A research paper is similar to a thesis except that it is not published through UMI/ProQuest by the university. Instead, OpenSIUC is used to disseminate research papers. The Graduate School sets the deadline for submission of a research paper. Students must follow format and content guidelines for a thesis. See http://www.siu.edu/gradschl/dtrguide.htm for more information.
In any case, each graduate student forms a graduate committee to review work completed during graduate study.

**Forming a Graduate Committee**

Each graduate student selects a committee of three to five faculty members to serve as advisors for your design thesis, research paper, or thesis project. You may select from among all graduate faculty on this campus and are encouraged to seek a faculty member whose expertise in another area of study is particularly relevant to your thesis project. Others from outside SIUC may also serve on your committee. They must provide a current curriculum vita so that graduate faculty status may be requested for them.

A graduate committee must be formed by the 12th week of the fall semester of the 15-month program. Once formed, you must notify the Head of the Master of Architecture program of the names and contact information of your committee members. The graduate committee serves as advisors for your thesis project. Consult them regularly! It is up to each student to involve the graduate committee in their work.

One member of your graduate committee serves as the chair of the committee. All problems regarding research questions and methods as well as procedural matters about your thesis project should be brought first before the student's Graduate Faculty Committee Chair. If the problem is not resolved, bring the issue to the attention of the Head of the Master of Architecture program. Problems involving procedural matters with your program of study should be brought first to the Head of the Master of Architecture program. Some example issues follow:

<table>
<thead>
<tr>
<th>Issue</th>
<th>Resolution</th>
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<tbody>
<tr>
<td>If you have questions on the scope of your thesis project:</td>
<td>See your Graduate Faculty Committee Chair.</td>
</tr>
<tr>
<td>If you have technical questions on publication of your thesis:</td>
<td>Consult the standards published by the Graduate School first. Then, bring questions to your Graduate Faculty Committee Chair.</td>
</tr>
<tr>
<td>If you need to select a seminar or have questions about courses you may take:</td>
<td>See the Head of the Master of Architecture program.</td>
</tr>
<tr>
<td>If you believe you have not been treated fairly in a class:</td>
<td>See the Head of the Master of Architecture program.</td>
</tr>
<tr>
<td>When you need to enroll in classes or add/drop classes during the semester:</td>
<td>Consult the Head of the Master of Architecture program. Use SalukiNET to make course changes.</td>
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</table>

Finally, when you form your graduate committee, please ask the faculty members about their availability to meet with you between semesters and in the summer. Some faculty members
are not on campus in the summer because most faculty members hold nine month appointments. A clear understanding of the committee members’ schedules is important.

**Working With Your Graduate Committee**

After forming your graduate committee, consult them regularly about your project. Architecture students are accustomed to the jury concept for review of their work. Consider your graduate committee to be a standing jury that meets whenever you want to consult them.

You may consult committee members individually as appropriate to the nature of the question you want to ask. Official review of your graduate work is only accomplished by calling the entire committee together for the stated purpose of reviewing your work. Individual consultations can result in committee members having very different understandings about your project. In some cases, a committee member may even feel as though they are not a full member of your committee. Avoid these problems by holding regular meetings with all committee members and understanding that these meetings, and not other communications, are the official reviews of your project.

You will be questioned by your committee throughout the review process. At some point you may be asked to leave the room so the committee can discuss your work in executive session. This is typical to the process of reviewing your project, so do not panic. You are invited back into the room once the discussion is complete. Questioning may resume or your chair may communicate the committee’s findings to you.

While you should feel free to ask questions you need to ask, never be argumentative with your committee. The committee is supposed to critique your work and question you about it. This can lead to people thinking the criticisms are personal. The criticisms should never be taken personally but should be taken in the spirit of trying to improve the quality of your project. If you believe you have been criticized unfairly or you have reason to question the ethical basis of the committee’s actions, please speak to the Head of the Master of Architecture program.

Official communication comes only through your Graduate Faculty Committee Chair. Communications received from other committee members are not to be considered the final word in your review under any circumstances. Always ask your committee chair if you receive communications that conflict with the information your chair has provided you.

Since some students need structure in meeting deadlines, the following calendar is strongly suggested. Some activities are noted as required on the planning calendar on the next page. Other activities may occur in a variety of timeframes without creating a problem that prevents completion of the project for summer graduation. Use this planning calendar as a tool to know what you must do as you complete your thesis, research paper, or architectural project. If you begin to fall considerably behind the suggested times on the planning calendar, you may need to find time to complete the work more quickly or may need to graduate in December instead of August. Spring break and the periods between semesters make great “catch-up times!”
## Master of Architecture Planning Calendar

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>12th week of the fall semester</td>
<td>You are required to have formed your graduate committee and must notify the Head of the Master of Architecture program. Complete the Graduate Faculty Committee Approval Form at <a href="http://www.siu.edu/gradschl/forms.htm">http://www.siu.edu/gradschl/forms.htm</a>. This form is given to Mr. Dobbins. He will take care of submitting it to the Graduate School, as required by your choice.</td>
</tr>
<tr>
<td>15th week of the fall semester</td>
<td>State the problem you are researching. This corresponds to chapter 1 of a thesis or research paper. It is the initial program for a design project. This may be incorporated into one of the graduate seminar courses.</td>
</tr>
<tr>
<td>2nd week of the spring semester</td>
<td>Literature review and/or precedent studies. Meet with your graduate committee for the first time. Provide copies of your work to them at least one full week ahead of the meeting.</td>
</tr>
<tr>
<td>6th week of the spring semester</td>
<td>Research design. This corresponds to chapter 3 of a thesis or research paper. For design projects, present preliminary design solutions. Meet with your committee a second time. As noted already, provide copies of your work to the committee at least a full week ahead of your scheduled meeting.</td>
</tr>
<tr>
<td>14th week of the spring semester to 1st week of the summer semester</td>
<td>Communicate and interpret your findings. This corresponds to chapters 4 and 5 of a thesis or research paper. For design projects, present refined design solutions addressing problems your committee has discussed with you.</td>
</tr>
<tr>
<td>Final Defense</td>
<td>Meet with your committee no later than the first week of the summer semester.</td>
</tr>
<tr>
<td>Deadlines for final products</td>
<td>Both design and regular theses are due by mid-summer, typically the first Friday in July. This date is published by the Graduate School and cannot be negotiated. Non-thesis design thesis projects are due no later than the final Monday of the summer semester. This date is established by the School of Architecture.</td>
</tr>
<tr>
<td>Apply for graduation</td>
<td>You must apply for graduation no later than the first Friday of the summer semester for August graduation. Graduate students have until the second Friday of the fall or spring semesters for December or May graduation.</td>
</tr>
<tr>
<td>If you change from thesis option to a non-thesis option</td>
<td>Notify the Graduate School by the published deadline for thesis submittal. This is the same deadline when a thesis must be submitted. If the Graduate School expects a thesis from you and does not receive it, you will not graduate that semester.</td>
</tr>
<tr>
<td>If you do not complete your project by the deadline...</td>
<td>You must register for one credit hour of ARC 601 to remain a student in the Master of Architecture program. You have up to six years from the time you entered the program to earn your degree but must register for ARC 601 each semester. If you applied for graduation and more than two regular semesters have elapsed since that time, you must reapply for graduation when you are ready to graduate.</td>
</tr>
</tbody>
</table>
Defending Your Thesis

The most important milestone of the Master of Architecture program may be the defense of your thesis project. This is sometimes called the comprehensive exam. Your Graduate Committee will establish how they wish to examine you. A written exam may be included as part of the defense of your thesis. Your committee chair will notify you in advance if a written exam will be required. In all cases, you will be interviewed and questioned by your committee at an official meeting of the committee.

Architecture students are familiar with the jury concept. Defending your thesis is much like a jury. Those who are completing a design thesis project will present a final project presentation to their committee. Requirements for this presentation are set forth by your Graduate Committee. You must also submit a record of your design thesis project. The requirements for this are set forth later in this document. This is submitted to the School of Architecture and kept in our departmental library.

Your committee recommends you for graduation upon successful completion of your comprehensive exam and thesis project. At least two of the three committee members must concur in the recommendation for graduation with one of those being the chair of your committee. For design thesis option only, your committee serves in an advisory role. Design Thesis I and II studios are graded S/U – satisfactory/unsatisfactory. S/U grades do not reflect in the calculation of your GPA.

Format Requirements for Your Final Project Submittal

Thesis and research paper requirements are established by the Graduate School. See the Graduate School web site: http://www.siu.edu/gradschl/dtrguide.htm. The deadline is established by the Graduate School. It is usually one month before the end of the semester in which you graduate, but you should check the Graduate School’s calendar for the exact date.

Design thesis projects are submitted to the School of Architecture. The guidelines for design thesis projects and non-thesis research papers are presented below.

1. The deadline is the final Monday of the semester in which you plan to graduate. Your committee must have recommended you for graduation and you must submit a bound book containing your non-thesis research paper or design thesis project.
2. Follow the style manual that applies to your work for all matters of style. See the information that follows this section for more on style manuals.
3. The books are to be bound on the left edge. Three-ring notebooks and spiral and coil binding are not permitted. Book binding is available at local office supply stores. Use a black cover only. You may use the insert to title your booklet using the thesis title and author’s name.
4. Paper size shall not exceed 8-1/2” x 11”. If metric paper size is used, use A4 paper (210 mm x 294 mm). Paper is to be white 20-pound paper with 100% cotton fiber content. This is archival quality paper. Foldout pages may be used when needed. Supplemental
materials will not be allowed, however. In other words, all work must be bound in the book binding.
5. Margins are to be 1” (25 mm) on all sides except the binding edge. The margin on the binding side shall be 1-1/2” (40 mm).
6. If you must mount content on the pages, use a dry mount process or spray adhesive used for photographs. Do not use rubber cement or any type of glue.
7. Color: Both the Graduate School and the School of Architecture allow the use of color in your work.
8. Font: Use a standard font – Arial, Bookman, Courier New, Helvetica, and Times New Roman are standard fonts. Do not use any other fonts in your text. Only use bold, italics, and other font settings as permitted by the style manual.
9. Font size: Standard text shall be 10- or 12-point. Headings and subheadings may be 14-point font.
10. Double spacing must be used in the body of the text. Print only on one side of the paper.
11. All pages in the body of the document must be numbered. Consult your style manual to understand how to number the pages.
12. If you are completing a thesis or research paper, make an appointment with the Graduate School to have your document reviewed by a consultant BEFORE making the final copy. This is a Graduate School requirement.
13. If you are completing a design thesis project, your Graduate Committee chair should review your document before you make the final copy.

School of Architecture Style Manual
Architecture students complete research in a wide variety of areas. The School of Architecture follows APA Style, as used by the SIU Graduate School.

- *The Publication Manual of the American Psychological Association* is commonly called APA. Visit [www.apastyle.org](http://www.apastyle.org) to learn more. A software version of the manual compatible with many common applications is available at this site. All students submitting a thesis or research paper to the Graduate School MUST USE APA style.

Outline of Contents for Design Thesis Projects
Projects completed in the School of Architecture will naturally vary a great deal in subject matter and content. These guidelines establish the minimum requirements for a design thesis. Research paper guidelines are clearly defined by the Graduate School and should be followed precisely. Visit the Graduate School web page: [http://www.siu.edu/gradschl/research_guide.htm](http://www.siu.edu/gradschl/research_guide.htm) for the details.

In this section of the graduate handbook, expectations regarding content of the architectural design thesis are given. Please note – your design thesis is individually completed in consultation with your committee. Rely on your committee to better understand what you
should consider including in your design thesis. These guidelines indicate what is generally included in a design thesis.

There is no set number of chapters for a design thesis. The minimum requirements to be shown include:

- An introduction to the problem to be solved. This is usually given near the front of the thesis in chapter 1.
- A review of the literature pertaining to the problem. This often follows introduction to the problem but may be distributed in your thesis in other ways. In some theses, literature review is infused throughout the work. Do not confuse primary review of the literature with citation of sources. If used, this chapter is the location for primary literature review. Sources are cited throughout a thesis.
- A study of architectural precedents. This is usually placed after the problem introduction as well. In some theses, both literature review and architectural precedents study is required. In other theses, it may be just one of the two components. Seek the advice of your committee regarding whether you should have one chapter with both components or two separate chapters.
- Next, state the program you have developed to solve the architectural design problem. Explain how you believe the program meets the needs stated in the problem. You should cite other architectural programs you have used to develop your program.
- The next chapter shows your design. Little to no literature review is needed in this chapter because you are creating a new architectural product. In this chapter, you do not discuss your design at length – you show the design to the reader. It is likely that some explanation of your work is required along with the images. In fact, no floating images (images that are not referenced in the text) are allowed.
- Following the design chapter you should review the design for the reader. Point out how it meets the problem statement and fulfills the expectations of the program. You may use literature citations to refer to other architectural works, ideas, or theories that influenced your choices. In this chapter, discuss the design in as much detail as it takes to thoroughly explain the design to the reader. Draw conclusions about your design in this chapter. Discuss its strengths and limitations.
- Your thesis may contain additional chapters as needed. Exploring additional questions raised by your problem statement, comparing your design solution to another work of architecture, and relating how your solution fits the needs of the community and other users, are possible examples of additional writing you may choose to do.

In general, a design thesis has at least five chapters: 1) Problem Statement, 2) Literature Review and/or Precedent Study (these may be two separate chapters, if desired), 3) Architectural Program, 4) Design Solution, and 5) Explanation of Design Solution.

**Graduate Assistantships**

The School of Architecture is able to offer several graduate assistantships. These positions fall into three categories:
• Teaching Assistantships – assists with teaching by offering tutoring or assisting in a course. The School of Architecture does not assign GAs to lead any of its courses. GAs will work with a professor.

• Administrative Assistantships – assists the School by staffing our computer lab, library, and CNC machine/laser cutter lab. In addition to overseeing a lab, you may be assigned other duties by the School of Architecture that are to be completed during your assigned work hours.

• Research Assistantships – assists a professor with a research agenda defined by the professor.

In addition to a stipend during the nine months a GA position covers, GAs receive full tuition benefits during the fall, spring, and last summer semesters of their 15-month program. GA positions do not cover tuition for the first summer of the 15-month program.

International students seeking a graduate assistantship must satisfy the requirements for employment eligibility specified in the Immigration and Naturalization Service Form I-9. International students seeking a teaching assistantship must also satisfy university requirements for English language proficiency.

Graduate assistantships are recommended by the Graduate Admissions Committee but awarded by the School of Architecture. The committee works with the Head of the Master of Architecture program to align students with our GA needs each year.

All GA positions are quarter time positions unless specifically stated otherwise. GAs work 10 hours per week during all weeks the university is open. All positions are nine months in length unless specifically stated otherwise. GAs are under contract during the period between the fall and spring semesters except for the administrative closure period. Administrative closure is normally from December 24 through January 1 each year. These dates may be adjusted depending on the days of the week on which the dates fall.

Your position may require that you are provided access to rooms, equipment, and supplies needed to perform your job. As stewards of the University’s resources and property, you are expected to exercise proper precaution to protect those items entrusted to you and ethical judgment about how they are to be used. You are responsible for the security of keys provided to you and may not allow other students to use your keys. Those working in labs where a fee is charged to a student to access the lab’s services, for example, plotting in the computer lab, are expected to properly charge all fees to students.

GAs should see the Employee Handbook for detailed information on university employment. It is available at:

http://www.siuc.edu/~policies/employees_handbook/index.html
One more note on GA hours – any training required by the university or the School of Architecture counts as part of the hours you work. You are paid for required training.

**Leaves of Absence and Continuing Enrollment**

If you must leave campus without enrolling for at least one semester, contact the Head of the Master of Architecture program. A Graduate Student Request for Leave of Absence must be completed. You will not enroll for classes during your absence. If you are not on a leave of absence, you must register for classes.

If you complete all required coursework but do not apply to graduate or are completing your thesis project, you must enroll in Architecture 601 to continue in the program. You enroll for one credit hour. The university does not charge fees for 601 classes. You are not permitted to use university facilities and will not be covered by student insurance when you are enrolled in Architecture 601. Students serving as graduate assistants cannot enroll in Architecture 601.

**Incomplete Grades**

The [Graduate Catalog](#) establishes the rules for issuing the grade INC. A student who takes an incomplete must execute a written agreement with the instructor stating the work that is required to complete the course and specifying a time limit. When the work is submitted or the time ends, the instructor will submit a grade based on all work submitted to that date. You may not submit additional work beyond the time limit established in your agreement.

**Program of Study Form**

Many graduate programs require completion of a Program of Study form. The School of Architecture does not require that students complete a Program of Study form. The Master of Architecture program is a set curriculum for all students except for electives. You may choose any electives available for graduate credit at SIUC.

**Independent Study**

The Master of Architecture program offers independent study to its students through the ARC 502 course number. Students who wish to complete a unique program of study should work with a faculty member to offer a section of ARC 502. All faculty members in the School of Architecture may offer ARC 502. When multiple students wish to take the same independent study, the instructor will arrange a scheduled meeting time/place. Otherwise, students meet with their faculty sponsor at intervals established by that sponsor.

**Academic Grievances**

Students in the Master of Architecture program have the right to appeal a grade they believe is unfair or incorrect. Examples of issues that are grievable include:

- Application of non-academic criteria in the grading process.
- A course grade not directly reflective of performance as related to class requirements.
• A course grade assigned to one student by standards that differ from those applied to other students in the same course.

The Departmental Grievance Procedure is shown in the *Graduate Catalog*. The only variation that applies to the School of Architecture is that you should submit your written request for a student hearing to the Head of the Master of Architecture program. Follow the guidelines shown in the *Graduate Catalog* for content of the written request.

In all cases, a student is asked to try to resolve the issue directly with the instructor before submitting a request for a student hearing. Upon submittal of a written request for a student hearing, you will be asked how you have tried to resolve the issue directly with the instructor. If you believe you cannot try to resolve the issue directly with the instructor, indicate this when asked about your attempts at resolving the problem.

The Head of the Master of Architecture program decides how a grievance is to be resolved after the student hearing is conducted. If you feel the decision is in error, you may appeal to the Director of the School of Architecture. Not being happy with a decision is not an error and is not grounds for appeal to the Director.

**Resolving Other Problems**

The School of Architecture is committed to providing a safe learning environment for all students. As a student in the program, you are also asked to respect your fellow students and the faculty and staff. We will not tolerate discrimination in any of its forms.

Your first point of contact for other issues is the Head of the Master of Architecture program. If you believe you have been the victim of discrimination or sexual harassment, the Head of the Master of Architecture program must report these offenses to the appropriate campus authorities. In fact, all faculty members are mandated reporters for problems with these types of offenses.

Once the issue has been presented to the Head of the Master of Architecture program, resolution will be sought following the appropriate campus procedures for resolution of the issue.

**Special Academic Needs**

Southern Illinois University has long been a national leader in the area of providing access to education for all learners admitted to the campus. If you have special needs for learning, we will work to accommodate those needs to assist you in successfully completing the Master of Architecture program.

Disability Support Services, located in Woody Hall B150, will assist students in a variety of ways. These services are fully described in the *Graduate Catalog*. Click the link “Facilities and Services” to learn more.
Information about NAAB Student Performance Criteria is taken directly from *2009 Conditions for Accreditation FINAL EDITION*. NAAB’s definition of understanding and ability are given first, followed by the Student Performance Criteria divided into three realms of architectural education. Students are invited to view the entire document from which information here has been taken at: [NAAB Public Documents](http://www.naab.org/publications). 

**Definition of Understanding and Ability**

The criteria encompass two levels of accomplishment:

- **Understanding**—The capacity to classify, compare, summarize, explain and/or interpret information.
- **Ability**—Proficiency in using specific information to accomplish a task, correctly selecting the appropriate information, and accurately applying it to the solution of a specific problem, while also distinguishing the effects of its implementation.

**Student Performance Criteria:** The SPC are organized into realms to more easily understand the relationships between individual criteria.

**Realm A: Critical Thinking and Representation:**
Architects must have the ability to build abstract relationships and understand the impact of ideas based on research and analysis of multiple theoretical, social, political, economic, cultural and environmental contexts. This ability includes facility with the wider range of media used to think about architecture including writing, investigative skills, speaking, drawing and model making. Students’ learning aspirations include:

- Being broadly educated.
- Valuing lifelong inquisitiveness.
- Communicating graphically in a range of media.
- Recognizing the assessment of evidence.
- Comprehending people, place, and context.
- Recognizing the disparate needs of client, community, and society.

A.1. **Communication Skills:** *Ability to read, write, speak and listen effectively.*
A. 2. **Design Thinking Skills:** *Ability to raise clear and precise questions, use abstract ideas to interpret information, consider diverse points of view, reach well-reasoned conclusions, and test alternative outcomes against relevant criteria and standards.*
A. 3. **Visual Communication Skills:** *Ability to use appropriate representational media, such as traditional graphic and digital technology skills, to convey essential formal elements at each stage of the programming and design process.*
A.4. **Technical Documentation:** *Ability to make technically clear drawings, write outline specifications, and prepare models illustrating and identifying the assembly of materials, systems, and components appropriate for a building design.*
A.5. **Investigative Skills:** *Ability to gather, assess, record, apply, and comparatively evaluate relevant information within architectural coursework and design processes.*
A. 6. **Fundamental Design Skills:** *Ability to effectively use basic architectural and environmental principles in design.*
A. 7. **Use of Precedents:** *Ability to examine and comprehend the fundamental principles present in relevant precedents and to make choices regarding the incorporation of such principles into architecture and urban design projects.*
A. 8. **Ordering Systems Skills:** *Understanding of the fundamentals of both natural and formal ordering systems and the capacity of each to inform two- and three-dimensional design.*
A. 9. **Historical Traditions and Global Culture:** *Understanding of parallel and divergent canons and traditions of architecture, landscape and urban design including examples of indigenous, vernacular, local, regional, national settings from the Eastern, Western, Northern, and Southern hemispheres in terms of their climatic, ecological, technological, socioeconomic, public health, and cultural factors.*
A. 10. **Cultural Diversity**: Understanding of the diverse needs, values, behavioral norms, physical abilities, and social and spatial patterns that characterize different cultures and individuals and the implication of this diversity on the societal roles and responsibilities of architects.

A.11. **Applied Research**: Understanding the role of applied research in determining function, form, and systems and their impact on human conditions and behavior.

**Realm B: Integrated Building Practices, Technical Skills and Knowledge:**
Architects are called upon to comprehend the technical aspects of design, systems and materials, and be able to apply that comprehension to their services. Additionally they must appreciate their role in the implementation of design decisions, and the impact of such decisions on the environment. Students learning aspirations include:
- Creating building designs with well-integrated systems.
- Comprehending constructability.
- Incorporating life safety systems.
- Integrating accessibility.
- Applying principles of sustainable design.

B. 1. **Pre-Design**: Ability to prepare a comprehensive program for an architectural project, such as preparing an assessment of client and user needs, an inventory of space and equipment requirements, an analysis of site conditions (including existing buildings), a review of the relevant laws and standards and assessment of their implications for the project, and a definition of site selection and design assessment criteria.

B. 2. **Accessibility**: Ability to design sites, facilities, and systems to provide independent and integrated use by individuals with physical (including mobility), sensory, and cognitive disabilities.

B. 3. **Sustainability**: Ability to design projects that optimize, conserve, or reuse natural and built resources, provide healthful environments for occupants/users, and reduce the environmental impacts of building construction and operations on future generations through means such as carbon-neutral design, bioclimatic design, and energy efficiency.

B. 4. **Site Design**: Ability to respond to site characteristics such as soil, topography, vegetation, and watershed in the development of a project design.

B. 5. **Life Safety**: Ability to apply the basic principles of life-safety systems with an emphasis on egress.

B. 6. **Comprehensive Design**: Ability to produce a comprehensive architectural project that demonstrates each student’s capacity to make design decisions across scales while integrating the following SPC:
- A.2. Design Thinking Skills
- A.4. Technical Documentation
- A.5. Investigative Skills
- A.8. Ordering Systems
- A.9. Historical Traditions and Global Culture
- B.2. Accessibility
- B.3. Sustainability
- B.4. Site Design
- B.5. Life Safety
- B.8. Environmental Systems
- B.9. Structural Systems

B. 7 **Financial Considerations**: Understanding of the fundamentals of building costs, such as acquisition costs, project financing and funding, financial feasibility, operational costs, and construction estimating with an emphasis on life-cycle cost accounting.

B. 8 **Environmental Systems**: Understanding the principles of environmental systems’ design such as embodied energy, active and passive heating and cooling, indoor air quality, solar orientation, daylighting and artificial illumination, and acoustics; including the use of appropriate performance assessment tools.

B. 9. **Structural Systems**: Understanding of the basic principles of structural behavior in withstanding gravity and lateral forces and the evolution, range, and appropriate application of contemporary structural systems.
B. 10. **Building Envelope Systems**: Understanding of the basic principles involved in the appropriate application of building envelope systems and associated assemblies relative to fundamental performance, aesthetics, moisture transfer, durability, and energy and material resources.

B. 11. **Building Service Systems**: Understanding of the basic principles and appropriate application and performance of building service systems such as plumbing, electrical, vertical transportation, security, and fire protection systems.

B. 12. **Building Materials and Assemblies**: Understanding of the basic principles utilized in the appropriate selection of construction materials, products, components, and assemblies, based on their inherent characteristics and performance, including their environmental impact and reuse.

**Realm C: Leadership and Practice:**
Architects need to manage, advocate, and act legally, ethically and critically for the good of the client, society and the public. This includes collaboration, business, and leadership skills. Student learning aspirations include:

- Knowing societal and professional responsibilities.
- Comprehending the business of building.
- Collaborating and negotiating with clients and consultants in the design process.
- Discerning the diverse roles of architects and those in related disciplines.
- Integrating community service into the practice of architecture.

C. 1. **Collaboration**: Ability to work in collaboration with others and in multidisciplinary teams to successfully complete design projects.

C. 2. **Human Behavior**: Understanding of the relationship between human behavior, the natural environment and the design of the built environment.

C. 3. **Client Role in Architecture**: Understanding of the responsibility of the architect to elicit, understand, and reconcile the needs of the client, owner, user groups, and the public and community domains.

C. 4. **Project Management**: Understanding of the methods for competing for commissions, selecting consultants and assembling teams, and recommending project delivery methods.

C. 5. **Practice Management**: Understanding of the basic principles of architectural practice management such as financial management and business planning, time management, risk management, mediation and arbitration, and recognizing trends that affect practice.

C. 6. **Leadership**: Understanding of the techniques and skills architects use to work collaboratively in the building design and construction process and on environmental, social, and aesthetic issues in their communities.

C. 7. **Legal Responsibilities**: Understanding of the architect’s responsibility to the public and the client as determined by registration law, building codes and regulations, professional service contracts, zoning and subdivision ordinances, environmental regulation, and historic preservation and accessibility laws.

C. 8. **Ethics and Professional Judgment**: Understanding of the ethical issues involved in the formation of professional judgment regarding social, political and cultural issues in architectural design and practice.

C. 9. **Community and Social Responsibility**: Understanding of the architect’s responsibility to work in the public interest, to respect historic resources, and to improve the quality of life for local and global neighbors.

This ends the text taken directly from *2009 Conditions for Accreditation FINAL EDITION*. 