

MICHIGAN STATE UNIVERSITY

February 28, 2011

MEMORANDUM

TO: Dr. Douglas Estry, Associate Provost for Undergraduate Education
and Dean of Undergraduate Studies

FROM: Dr. Linda O. Stanford, Associate Provost for Academic Services

RE: Request to Modify the Courses Required in a Previously Approved List
of Courses with a Minimum Grade-Point Requirement in the Bachelor of
Landscape Architecture Degree in Landscape Architecture

For Transmittal to the University Committee on Academic Policy UCAP)

The request referenced above is being sent to the University Committee on Academic Policy (UCAP) in accordance with the *Bylaws for Academic Governance*, 4.4.

UCAP Response Requested:

Please ask the UCAP to consider the request referenced above and provide consultative commentary prior to the April 28, 2011 Full Committee, UCC meeting. Please mail the related materials referenced under the heading Attachments at the end of this memorandum to the UCAP members.

The academic program and course requests referenced above will be included on the agenda for the April 21, 2011 meeting of Subcommittee B, University Committee on Curriculum (UCC). Requests that are approved by Subcommittee B on April 21 will be before the Full Committee, UCC, for action on April 28, 2011. Requests that are approved by the Full Committee on April 28 will be included in the September, 2011, Report of the UCC to the Academic Council.

If you have any questions, please call Joy Speas, University Curriculum Administrator, at 5-8420.

Thank you.

Attachments:

1. Request for Changes in an Academic Program form dated February 28, 2011: Bachelor of Landscape Architecture Degree in Landscape Architecture and attachments.

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University Curriculum and Catalog

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COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

1. Request to change the requirements for the **Bachelor of Landscape Architecture** degree in **Landscape Architecture** in the School of Planning, Design and Construction. The University Committee on Academic Policy (UCAP) will consider this request.

- a. Under the heading **Admission as a Junior** add the following new paragraph two:

To be admitted to the Bachelor of Landscape Architecture program, the following factors will be taken into consideration: (1) overall MSU grade-point average; (2) grade-point average in all landscape architecture courses; (3) evidence of creative works and service; and (4) a written essay.

- b. Under the heading **Requirements for the Bachelor of Landscape Architecture Degree in Landscape Architecture** replace the entire entry with the following:

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 130 credits, including general elective credits, are required for the Bachelor of Landscape Architecture degree in Landscape Architecture.

Students who are enrolled in the Landscape Architecture major leading to the Bachelor of Landscape Architecture degree in the School of Planning, Design and Construction may complete an alternative track to Integrative Studies in Biological and Physical Sciences that consists of the following courses: Plant Biology 105 and 106, and Chemistry 141 and 161. The completion of Plant Biology 106 and Chemistry 161 satisfies the laboratory requirement. Plant Biology 105 and 106, and Chemistry 141 and 161 may be counted toward both the alternative track and the requirements for the major referenced in item 2. below.

The completion of Mathematics 116 referenced in requirement 2. below may also satisfy the University mathematics requirement.

The University's Tier II writing requirement for the Landscape Architecture major is met by completing Landscape Architecture 480. That course is referenced in item 2. c. below.

2. The following requirements for the major:

		CREDITS
a.	A minimum grade-point average of 2.00 in the 42 credits required in 300-400 level Landscape Architecture courses referenced in requirement 2. c. below.	
b.	Collateral Courses (36 credits):	
(1)	All of the following courses (33 credits):	
	CEM 141 General Chemistry	4
	CEM 161 Chemistry Laboratory I	1
	HRT 211 Landscape Plants I ¹	3
	HRT 212 Landscape Plant II ¹	3
	HRT 311 Landscape Design and Management	4
	ISS 310 People and the Environment (I) ¹	4
	MTH 116 College Algebra and Trigonometry ¹	5
	PDC 120 Planning and Design Digital Graphics ¹	2
	PLB 105 Plant Biology ¹	3
	PLB 106 Plant Biology Laboratory ¹	1
	UP 424 Geographic Information Systems and Design Tools for Planning	3
(2)	Students must demonstrate AutoCAD proficiency through transfer credit, waiver or completion of the following course (0 to 3 credits) ¹ :	
	IDES 240 Computer-Aided Design for Designers	3

- c. **Landscape Architecture Courses**
 All of the following courses (61 credits):
- | | | | |
|----|-----|---|---|
| LA | 140 | Graphics and Two-Dimensional Design Studio ¹ | 4 |
| LA | 141 | Graphics and Three-Dimensional Design Studio ¹ | 4 |
| LA | 200 | Introduction to Landscape Architecture ¹ | 3 |
| LA | 230 | Site Construction Materials and Methods ¹ | 4 |
| LA | 231 | Landscape Site Engineering ¹ | 4 |
| LA | 242 | Creating Space Studio ¹ | 4 |
| LA | 243 | Place Making Studio ¹ | 4 |
| LA | 332 | Advanced Landscape Site Engineering | 4 |
| LA | 344 | Connections of Scale Studio | 5 |
| LA | 345 | Design Development Studio | 5 |
| LA | 390 | Landscape Architecture Field Studies | 3 |
| LA | 421 | Drawing as Knowing | 4 |
| LA | 447 | Juried Design Studio | 5 |
| LA | 448 | Regional Environmental Design Studio | 2 |
| LA | 449 | Landscape Architecture Design Studio | 3 |
| LA | 480 | Professional Practice (W) | 3 |
- d. One of the following courses (3 credits):
- | | | | |
|----|-----|--------------------------------|---|
| EC | 201 | Introduction to Microeconomics | 3 |
| EC | 202 | Introduction to Macroeconomics | 3 |
- e. **Directed Electives** (14 credits):
 A minimum of 14 additional credits in courses approved by the student's academic advisor. Courses that are used to satisfy the University Integrative Studies and writing requirements may *not* be used to satisfy this requirement. Courses used to satisfy the AutoCAD proficiency requirement referenced item 2. b. (2) above may not be used to satisfy this requirement.

¹ Core courses that must be completed in order for a student to be considered for admission to the major.

Effective Fall 2011.

View a Program		Main Menu
Joy Speas, RO	Friday, 2/25/2011	
Program Name: Landscape Architecture Degree: BLA Sequence Number: 2	Program Request ID: 1981	
Effective Dates: Fall 2011 - Open Status: Interim Initial Action: Change		
Requested Date: 2/25/2011 9:56:24 AM		
<p>1. Department/School/College: 02116 School of Planning, Design and Construction</p> <p>2. Name of Program: Landscape Architecture</p> <p>3. Name of Degree: BLA</p> <p>4. Type of Program: Major</p> <p>5. Effective Start Semester: Fall 2011</p> <p>6. Target student audience for the program: MSU Undergraduates</p> <p>7. Enrollment: What is the expected enrollment per year: 18 What is the minimum enrollment acceptable: 10</p> <p>8. Source of budget for the program: To align academic planning and curricular change, ALL requests for NEW funds must be included in the College's annual planning letter. Provost approval of new funds and the effective date for the new program must align. If funding is not approved, then the program request will not be forwarded to Academic Council. Internal reallocation If new funds, was this request included in the College's annual planning letter? Indicate yes or no. If no, then this is a department or college fund reallocation (If the program is implemented, no additional resources are required.).</p> <p>9. Projected Costs as compared to other programs in unit: Same</p> <p>10. Staff requirement: How many additional staff will be required: 0 Who will provide the primary instruction. Describe any external linkages(industry, government, etc.): Linkages support professional development of students and maintain professional degree</p>		

accreditation: Landscape Architecture Accreditation Board; Council of Landscape Architectural Registration Boards; American Association of Landscape Architects: Michigan Chapter.

11. Will additional equipment be required:

Approximate cost: 0

Source of funding:

12. Will additional library materials be required:

Approximate cost: 0

Source of funding: None

13. Will additional space be required:

Type:

Approximate amount:

14. If the program requirements contain a named concentration, do you wish for the concentration to be noted on the student's transcript?:

No

15. Detailed Description:

The goal of this proposal is to update the BLA curriculum. The proposal has been vetted and supported by alumni, practitioners, and current students. The BLA is offered and supported by the School of Planning, Design and Construction and the College of Agriculture and Natural Resources.

Detailed background and rational are provided in the attached "BLA/MED Fact Sheet."

Additional attachments include:
LAAB Standards Procedure 2010

16. Admissions requirements for the program:

a. If a minimum grade-point average is required for admission, or if grades in specific courses are required for admission, describe the rationale for this requirement. Why were the specific courses chosen, why was the specific grade-point average chosen? What data are available to evaluate the efficacy of the current requirement?

The first two years of the curriculum are open to any student who declares the BLA preference. Students who have declared a preference will receive preferential enrollment for the LA core required courses. Students are eligible to apply for admission into the BLA after completion of the first two years of curriculum requirements.

The LA course GPA is based on seven core courses focused on landscape architectural design and construction. No minimum GPA is required. The courses includes:

LA	140	Graphics & Two Dimensional Design Studio
LA	200	Introduction to Landscape Architecture
LA	141	Graphics & Three Dimensional Design Studio
LA	242	Creating Space Studio

LA	230	Site Construction Materials & Methods
LA	243	Place Making Studio
LA	231	Landscape Site Engineering

b. If the student achieves the minimum grade(s) or grade-point average, will the student be guaranteed admission or considered for admission?

No minimum GPA required. All applicants are considered for admission.

c. If the response is "considered for admission," what other variables are taken into consideration, how are they weighted, who decides, and why? (e.g., enrollment limits, available clinic sites, etc.).

Admission into the BLA degree is a competitive process based on an evaluation of applicants intel and design capabilities as represented equally by: 1) overall MSU GPA; 2) LA courses GPA; 3) evide creative works and service; and 4) a written essay. Applications will be evaluated by a minimum of 3 faculty members for: highly recommend, moderately recommend, do not recommend for acceptance. decisions will be made by the LA faculty and the Associate Director as an ex officio member. Admiss be limited to 18 students for each entering class. Landscape Architecture is a limited enrollment progr to physical studio capacity, faculty carrying capacity to offer the program, and studio class ratio of stud faculty for accreditation standards.

d. If your program is accredited, do the accreditation standards affect admissions standards? If so, how?

The admission requirements will bring the LA program into the recommended 16-18 students per stud (class) ratio. Accreditation also reviews the physical space provisions, such as studio space with desi tables, lecture space, gallery space, student gathering spaces, and faculty offices.

e. How does the unit educate prospective students about its requirements and restrictions?

The School has academic advisors to work with students regarding University, College and School requirements. Students meet with the academic advisor individually to go over their own academic pla to be informed of their specific requirements. Degree requirements are posted on the School web site

f. How does the unit currently assist non-qualified students in identifying alternative programs?

The academic advisor is available to meet with students who are not qualified for the major, and then c the students interests, strengths and what opportunities are available to them at MSU. The Horticultur Design Build specialization and Urban and Regional Planning are two alternative paths students often consider.

g. Given that admission standards have the potential to restrict access and limit flexibility, why is this change being proposed, what metrics/data were used to make this decision (please provide the data), and why is it important?

The BLA degree is on the cutting edge of Landscape Architecture education in the United States and s can graduate with the BLA in 4 ½ years.

Admission is currently based on MSU GPA only and the top 24 are admitted. The proposal includes reducing to 18 students admitted each year to address 1) accreditation recommendations of a 16-18:1 student to faculty ratio in studio classes, 2) align student admittance with faculty carrying capacity and physical space constrains for number of students in studio classes.

Applications have been declining over the last 10 years from up to 40 (in the 1990s) to 18 in the 2010 admission cycle. While the lowest GPA admitted has declined with the number of applicants, the aver GPA admitted is maintaining a high quality of academics in the LA student population.

Given the current physical capacity of studio room size and desks (24 seats maximum), it is difficult to accommodate students who are out of sequence or returning after a leave of absence from their undergraduate studies. The reduction of admittance to 18 per year (from 24) increases our flexibility to accommodate these students. It is not uncommon to have one student out of sequence in the 4th year year of their program of study.

h. Will this change impact the average time to degree? If so, in what way?

Year	# applications received	# admitted	Highest MSU GPA admitted	Lowest MSU GPA admitted	Average MSU GPA admitted
2006	32	24	4.0	3.369	3.301
2007	32	24	3.9636	3.127	3.447
2008	29	24	3.8444	2.8309	3.441
2009	26	24	3.9892	2.5263	3.526
2010	18	18	3.9346	2.61184	3.469

year curriculum. The proposed curriculum is 4 ½ years.

i. How many (and which) current students will be affected by this change?

At the first academic year of the new curriculum, declared LA students enrolled in the sophomore level courses and students admitted into the BLA, will be allowed to complete their degree requirements wit existing curriculum structure.

j. How will the unit notify current students of changes and how will they be accommodated?

Students are aware of proposed changes and have had input in the process. Students are also notified changes via MSU net e-mail, and are encouraged to meet with their academic advisor to see how changes will affect their specific plan. Students are accommodated within the constraints of the course offering accreditation requirements and university policies.

k. How will this change affect access for transfer students and how will this be accommodated?

Transfer students will be treated much as they are currently. Transcripts are evaluated and transfer students are informed of their admission and degree requirements upon entering MSU.

l. How will the unit educate prospective students and feeder institutions (as appropriate) about the new requirements and assist them with alternatives?

Prospective students will continue to come and meet with the academic advisor prior to transferring to

out their best alternatives. Community Colleges typically send students to the Unit as soon as they know they are interested in Landscape Architecture to get accurate and up to date information.

17. Type(s) of Change(s):

Include the type of change that is being requested [e.g., a change in a college or departmental requirements, a required cognate or certificate program, the number of credits required for the program, the distribution of credits in the program (e.g., the number of required vs. elective credits), the specific courses required for the program, and the requirements for admission as a junior], as well as the specific changes that are being requested. Using the *Academic Programs* as a base, the request should be submitted as an amendment to the catalog. A summary sheet showing the existing and proposed requirements side by side should be provided as appropriate

CHANGE	PROPOSED	CURRENT
BLA curriculum		
BLA time to completion	4 ½ years	5 years
BLA credit hours	130	139
Alternative track to Integrative Studies in Biological and Physical Sciences	Plant Biology 105 & 106 Chemistry 141 & 161	Biological Science 110 Chemistry 141 & 161 Zoology 355 & 355L
Collateral courses *	36 credits	31 credits
Environmental cognate courses *	Requirement omitted	16 credits
Directed elective courses	17 credits	6 credits
LA required courses *	58 credits	57 credits
BLA limited enrollment	18 students	24 students
BLA admittance criteria	evaluation of applicants intellectual and design capabilities as represented equally by: 1) overall MSU GPA; 2) LA courses GPA; 3) evidence of creative works and service; and 4) a written essay.	GPA only
BLA selection	Assessment of above by 3 LA faculty members for each applicant; discussion of full faculty for selection of up to 18.	Mathematical calculations of GPA with admittance of top 24.

REPLACE CURRENT CATALOG COPY WITH THE FOLLOWING:

Requirements for the Bachelor of Landscape Architecture Degree in Landscape Architecture

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 130 credits, including general elective credits, are required for the Bachelor of Landscape Architecture degree in Landscape Architecture.

Students who are enrolled in the Landscape Architecture major leading to the Bachelor of Landscape Architecture degree in the School of Planning, Design and Construction may complete an alternative track to Integrative Studies in Biological and Physical Sciences that consists of the following courses: Plant Biology 105 and 106 and Chemistry 141 and 161. The completion of Plant Biology 106 and Chemistry 161 satisfies the laboratory requirement. Plant Biology 105 and 106, and Chemistry 141 and 161, may be counted toward both the alternative track and the requirements for the major referenced in item 2. below.

The completion of Mathematics 116 referenced in requirement 2. below may also satisfy the University mathematics requirement.

The completion of ISS 310 referenced in requirement 2 below may also satisfy the University 300 level ISS requirement.

The University's Tier II writing requirement for the Landscape Architecture major is met by completing Landscape Architecture 480. Those courses are referenced in item 2. below.

2. The following requirements for the major:

a. A minimum grade-point average of 2.00 in the 42 credits required in 300-400 level Landscape Architecture courses referenced in requirement 2.d. below.

b. Collateral Courses (36 credits):

(1) All of the following courses (33 credits):

CEM 141	General Chemistry ¹	4
CEM 161	Chemistry Laboratory ¹	1
HRT 211	Landscape Plants I ¹	3
HRT 212	Landscape Plants II ¹	3
HRT 311	Landscape Design and Management Specifications ¹	4
MTH 116	College Algebra and Trigonometry ¹⁵	

PBL 105	Plant Biology ¹	3
PBL 106	Plant Biology Laboratory ¹	1
ISS 310	People and Environment ¹	4
PDC 120	Planning & Design Digital Graphics ¹	2
UP 424	GIS for Planners & Designers	3

(2) Autocadd proficiency through one of the following courses¹ (3 credits):

GCU	Autocadd transfer credit or waiver	0-3
IDES 240	Computer Aided Design for Designers	3

c. Landscape Architecture Courses: All of the following courses (61 credits):

LA 200	Introduction to Landscape Architecture ¹³				
(new LA 140)	(new LA 141)	(new LA 230)	(new LA 231)	(new LA 242)	(new LA 243)
332)	(new 344)	(new LA 345)	(new LA 447)	(new LA 448)	LA 480 Professional Practice (W

LA 140	Graphics & Two Dimensional Design Studio ¹
LA 141	Graphics & Three Dimensional Design Studio ¹
LA 242	Creating Space Studio ¹
LA 230	Construction Materials & Methods ¹
LA 243	Place Making Studio ¹
LA 231	Landscape Site Engineering ¹
LA 344	Connections of Scale Studio
LA 332	Advanced Landscape Site Engineering
LA 345	Design Development Studio
LA 390	Landscape Architecture Field Studies
LA 421	Drawing as Knowing
LA 447	Juried Design Studio
LA 448	Regional Environmental Design Studio
LA 449	Landscape Architecture Design Studio

d. University general education requirements (16 credits):

WRA 1xx	Tier 1 Writing ¹	3
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ISS 2xx	Integrative Studies ¹	4
IAH 20x	Arts & Humanities	4
IAH 21x	Arts & Humanities	4

e. One of the following courses (3 credits):

EC 201	Introduction to Microeconomics	3
EC 202	Introduction to Macroeconomics	3

f. Directed Electives (14 credits):

A minimum of 14 additional credits in courses approved by the student's academic advisor. Courses that are used to satisfy the University Integrative Studies, Arts & Humanities and writing requirements may not be used to satisfy this requirement. Courses used to satisfy the AutoCAD proficiency requirement may not be used to satisfy this requirement.

¹Core course that must be completed in order for a student to be considered for admission to the major.

18. Students who will be affected by the proposed change(s):

Indicate which current and prospective students will be affected by the proposed change such as students in the degree program. Check past class lists for affected students and their majors.

Students currently enrolled will not be affected by the proposed changes. The proposed curriculum changes have received overwhelming support by current students, alums, practitioners and the Michigan chapter of the American Society of Landscape Architects.

19. Will the proposed change(s) have a negative impact on students? If so, which ones?:

The proposed changes include starting the LA design sequence in the freshman year (currently it starts in the sophomore year). This is a common practice for professional and design schools across the country. This may impact transfer students, depending on their applicable transfer courses, and may impact students changing majors during their tenure at MSU.

16. Are there admissions requirements for this program?:

Grade or grade-point average requirements and if so in which course(s), portfolio requirement, audition, essay, etc. If there are not admission requirements other than those required by the University policy indicate "none".

See 15.

17. Type(s) of change(s):

See 15.

18. Students who will be affected by the proposed changes:

See 15.

19. Will the proposed change(s) have a negative impact on students? If so, which ones?:

See 15.

Describe impact and explain what accommodations will be made:

20. Reason(s) for change(s):

The proposed changes are on the leading edge of Landscape Architecture education: creating a curriculum infused with high impact teaching and learning practices, and decreases student time to graduation for the BLA.

DEPARTMENT LEVEL APPROVAL STATUS

Approved: School of Planning, Design and Construction
2/25/2011 10:59:46 AM by Patricia Daughenbaugh for Scott Witter, Director

SIGNOFFS STATUS

Signed Off: Department of Horticulture
2/25/2011 12:05:38 PM by William Baird for William V. Baird, Chairperson

COLLEGE LEVEL APPROVAL STATUS

Approved: College of Agriculture and Natural Resources
2/25/2011 3:57:57 PM by Richard Brandenburg for Richard Brandenburg, Associate Dean

Approved: College of Social Science
2/25/2011 3:03:37 PM by Jeanne Kalin for Thomas Summerhill, Associate Dean

LANDSCAPE ARCHITECTURE

The undergraduate Bachelor of Landscape Architecture program provides a diverse learning experience which strives for a balance among philosophy, theory, and application of concepts related to past, present, and future problem-solving in landscape architecture and allied environmental planning and design professions.

The program includes professional courses in design theory and graphic communications, environmental perception, history, and plant materials and their uses; technical aspects of site development, design applications for representative land uses; site planning for typical projects; community planning, housing and recreational development; and urban and regional design and planning.

The program offers meaningful design opportunities and challenges within the classroom and on community projects, which prepare the student to communicate through writing, speech and graphics. These objectives are met in group and in individual assignments where independent study and growth are encouraged.

The program in landscape architecture at Michigan State University has been accredited by the ~~American Society of Landscape Architects~~

Landscape Architecture Accreditation Board (LAAB) since 1952.

~~Upon completion of the undergraduate program, the individual is prepared to participate at the entry level of professional landscape architecture or to pursue graduate study leading to more specialized phases of professional work.~~

Honors Study

Students interested in honors programs in landscape architecture should consult with an academic advisor.

Admission as a Junior

The number of students who can be admitted as juniors to the landscape architecture major is limited. To be considered for admission as a junior, a student must have completed the core courses referenced in item 2. below. Students who have been admitted as juniors are entitled to enroll in upper-level landscape architecture courses required for the Bachelor of Landscape Architecture degree.

Insert (A)

Admissions are determined by the faculty on the basis of the relative qualifications of applicants and the enrollment capacity in the program. Admission is competitive.

Detailed information regarding admission requirements and procedures is available from the ~~Director for Landscape Architecture~~, School of Planning, Design and Construction.

Associate Director.

Requirements for the Bachelor of Landscape Architecture Degree in Landscape Architecture

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; ~~40 credits, including general elective credits, are~~ required for the Bachelor of Landscape Architecture degree in Landscape Architecture.

130

Students who are enrolled in the Landscape Architecture major leading to the Bachelor of Landscape Architecture degree in the School of Planning, Design and Construction may complete an alternative track to Integrative Studies in Biological and Physical Sciences that consists of the following courses: ~~Biological Science 110, Chemistry 141 and 161, and Zoology 355 and 355L.~~ The completion of ~~Chemistry 161 and Zoology 355L~~ satisfies the laboratory requirement. ~~Biological Science 110, Chemistry 141 and 161, and Zoology 355 and 355L~~ may be counted toward both the alternative track and the requirements for the major referenced in item 2. below.

*Plant Biology 105 and 106, and
Plant Biology 106 and
Plant Biology 105 and 106, and*

The completion of Mathematics 116 referenced in requirement 2. below may also satisfy the University mathematics requirement.

The University's Tier II writing requirement for the Landscape Architecture major is met by completing Landscape Architecture 480 or 482. ~~These courses are~~ referenced in item 2. below.

That course is

2. The following requirements for the major:

42

CREDITS

- a. A minimum grade-point average of 2.00 in the ~~40~~ credits required in 300-400 level Landscape Architecture courses referenced in requirement 2. below. *C.*
- b. Collateral Courses:

36

Insert 

To be admitted to the Bachelor of Landscape Architecture program, the following factors will be taken into consideration: (1) overall MSU grade-point average; (2) grade-point average in all landscape architecture courses; (3) evidence of creative works and service; and (4) a written essay.

- 33
- (1) All of the following courses (29 credits):
- ~~BS 140 Organisms and Populations~~ 4 *e*
 - CEM 141 General Chemistry 4
 - CEM 161 Chemistry Laboratory I 1
 - HRT 211 Landscape Plants I¹ 3
 - HRT 212 Landscape Plants II¹ 3
 - HRT 311 Landscape Design and Management Specifications 4
 - MTH 116 College Algebra and Trigonometry 5
 - ~~UP 494 Planning Practicum~~ 4 *e*

Insert ①

- (2) One of the following courses (3 credits):
- GEO 221 Introduction to Geographic Information 3
 - IDES 240 Computer Aided Design for Designers 3

~~c. Environmental Cognate Courses: 16 e~~

- (1) All of the following courses (10 credits):
- ~~CSS 240 Fundamentals of Soil and Landscape Science~~ 3
 - GEO 206 Physical Geography 3
 - ZOL 355 Ecology 8
 - ZOL 355L Ecology Laboratory 1

- (2) At least 6 additional credits in courses related to the environment approved by the student's academic advisor.

C. →

- Landscape Architecture Courses: All of the following courses:
- ~~LA 200 Introduction to Landscape Architecture¹~~ 3
 - ~~LA 220 Graphic Communication¹~~ 4
 - ~~LA 240 Applied Design Fundamentals¹~~ 4
 - ~~LA 270 Landscape Design History¹~~ 3
 - ~~LA 330 Site Construction: Materials and Methods~~ 4
 - ~~LA 331 Site Engineering~~ 4
 - ~~LA 341 Basic Site Design I~~ 4
 - ~~LA 342 Basic Site Design II~~ 5
 - ~~LA 437 Design Implementation~~ 3
 - ~~LA 443 Community Project Design I~~ 5
 - ~~LA 444 Community Project Design II~~ 5
 - ~~LA 445 Advanced Project Design~~ 4
 - ~~LA 446 Regional Environmental Design~~ 3
 - ~~LA 480 Professional Practice (W)~~ 3
 - ~~LA 492 Senior Research Seminar (W)~~ 3

~~67 61~~

Insert ②

d. →

- One of the following courses:
- EC 201 Introduction to Microeconomics 3
 - EC 202 Introduction to Macroeconomics 3

3

e. →

Directed Electives: ~~14~~ 14

~~42 14~~

A minimum of 12 additional credits in courses in the College of Arts and Letters and/or the College of Social Science approved by the student's academic advisor. Courses that are used to satisfy the University Integrative Studies and writing requirements may not be used to satisfy this requirement.

Insert ③

¹ Core course that must be completed in order for a student to be considered for admission to the major.

Insert (1)

ISS	310	People and the Environment (I) ¹	4
PDC	120	Planning and Design Digital Graphics ¹	2
PLB	105	Plant Biology ¹	3
PLB	106	Plant Biology Laboratory ¹	1
UP	424	Geographic Information Systems and Design Tools for Planning	3

(2) Students must demonstrate AutoCAD proficiency through transfer credit, waiver or completion of the following course (0 to 3 credits)¹:

IDES	240	Computer-Aided Design for Designers	3
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Insert (2)

LA	140	Graphics and Two-Dimensional Design Studio ¹	4
LA	141	Graphics and Three-Dimensional Design Studio ¹	4
LA	200	Introduction to Landscape Architecture ¹	3
LA	230	Site Construction Materials and Methods ¹	4
LA	231	Landscape Site Engineering ¹	4
LA	242	Creating Space Studio ¹	4
LA	243	Place Making Studio ¹	4
LA	332	Advanced Landscape Site Engineering	4
LA	344	Connections of Scale Studio	5
LA	345	Design Development Studio	5
LA	390	Landscape Architecture Field Studies	3
LA	421	Drawing as Knowing	4
LA	447	Juried Design Studio	5
LA	448	Regional Environmental Design Studio	2
LA	449	Landscape Architecture Design Studio	3
LA	480	Professional Practice (W)	3

Insert (3)

Courses used to satisfy the AutoCAD proficiency requirement referenced item 2. b. (2) above may not be used to satisfy this requirement.