

# Yale Schools of Architecture + Environment Joint Degree Program

## Program of Study

### DEGREE PATHWAYS

#### MARCH I + MEM

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#### MARCH II + MEM

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#### MARCH I + MESC/MFS

Page 6 MArch I to MESC/MFS 03A

Page 7 MESC/MFS to MArch I 03B

#### MARCH II + MESC/MFS

Page 8 MArch II to MESC/MFS 04A

Page 9 MESC/MFS to MArch II 04B

#### MARCH I/II + MF

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MArch II to MF  
MF to MArch I  
MF to MArch II

### ALL COURSES AND ELECTIVES

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YSE Courses  
Circular / Regenerative Building  
Material Cycles Electives  
Environmental Justice Electives



MARCH I + MEM JOINT DEGREE PROGRAM

MARCH I + MEM is a four-year course-based path of study that is suitable for students who do not have a prior professional architecture degree. Students can expect to gain both architectural foundations and environmental literacy and merge these two domains during their course of study. This is the most common joint-degree pathway.

MARCH I to MEM Pathway  
Program of Study: begin at YSOA

YSOA YSE Elective

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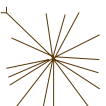
MARCH (96 required)	96
MEM (36 required)	36
Electives	12
(114 total required)	
<b>TOTAL CREDITS</b>	<b>144</b>

KEY CURRICULAR GLUE COURSES

MODs: Architecture Faculty, PhD Students  
YSE Internship / Research Project:  
Targeted Internships  
Joint-Degree Research Colloquium Course  
YSE Capstone: Co-Advisors with YSE / YSOA  
Electives: Updated Courselist

ADMIN

YSE Faculty Director: Karen Seto  
YSOA Faculty Director: Mae-ling Lokko  
YSE Program Coordinator: Asha Ghosh  
YSOA Program Coordinator: Jen Shin



MARCH I + MEM JOINT DEGREE PROGRAM

MEM to March I Pathway  
Program of Study: begin at YSE

YSOA YSE Elective

MArch I + MEM is a four-year course-based path of study that is suitable for students who do not have a prior professional architecture degree. Students can expect to gain both architectural foundations and environmental literacy and merge these two domains during their course of study. This is the most common joint-degree pathway.

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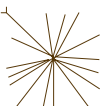
MArch (96 required)	93
MEM (36 required)	30
Electives	15
(132 total required)	
<b>TOTAL CREDITS</b>	<b>138</b>

KEY CURRICULAR GLUE COURSES

MODs: Architecture Faculty, PhD Students  
YSE Internship / Research Project:  
Targeted Internships  
Joint-Degree Research Colloquium Course  
YSE Capstone: Co-Advisors with YSE / YSOA  
Electives: Updated CourseList

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YSOA YSE Elective

MARCH II + MEM is a three-year hybrid course and research path of study that is suitable for students who already have a first professional architecture degree. Students can expect to deepen their architecture practice with environmental knowledge and expertise and inform their environmental training with their architecture background.

	FALL	SPRING	SUMMER
1ST YEAR* YSOA MATRIC.	ARCH Advanced Studio 9	ARCH Advanced Design Studio 9	ARCH Summer Travel Course (early summer) 3
	ARCH 3072A Design Research I 3	ARCH 3073B Design Research II 3	ARCH 1062C Resources for Design Research 0
	ARCH / ENV Elective 3	ARCH 4254B / ENV 643 Joint Degree 3	ENV YSE MODs: Self to System; Science to Solutions (late summer) 0
	ARCH / ENV Elective 3	Research Colloquium (recommended in first year)	
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	<b>TOTAL 18</b>	<b>TOTAL 18</b>	<b>TOTAL 3</b>

\* must apply to YSE in Fall of First (1st) Year

2ND YEAR YSE MATRICULATION	ENV 553 Perspectives: Environmental Leadership 3	ENV Specialization Core (2/2) 3	ENV Internship or Research Project (10–12 weeks) 0
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	ARCH / ENV Specialization Elective (1/4) 3	ARCH / ENV Elective 3	
	ENV Professional Skills Modules (1/3) 0		
	<b>TOTAL 15</b>	<b>TOTAL 15</b>	<b>TOTAL 0</b>

\* YSE foundations courses may be waived

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3RD YEAR	ARCH 1121A Design Research III: Independent Studio Part 1 9	ARCH 1121B Design Research IV: Part 2 Independent Studio 9
	ARCH / ENV Specialization Elective (3/4) 3	ENV Capstone or Independent Project 3
	ARCH / ENV Specialization Elective (4/4) 3	ARCH / ENV Elective 3
	ENV Professional Skills Modules (3/3) 0	
<b>TOTAL 15</b>	<b>TOTAL 15</b>	

† 15 credits max during YSE semesters (recommended)

CREDITS

MArch (54 required)	45
MEM (36 required)	30
Electives	24
(90 total required)	
<b>TOTAL CREDITS</b>	<b>99</b>

KEY CURRICULAR GLUE COURSES

MODs: Architecture Faculty, PhD Students  
YSE Internship / Research Project:  
Targeted Internships  
Joint-Degree Research Colloquium Course  
YSE Capstone: Co-Advisors with YSE / YSOA  
Electives: Updated Course list

ADMIN

YSE Faculty Director: Karen Seto  
YSOA Faculty Director: Mae-ling Lokko  
YSE Program Coordinator: Asha Ghosh  
YSOA Program Coordinator: Jen Shin

YSOA YSE Elective

MARCH II + MEM is a three-year hybrid course and research path of study that is suitable for students who already have a first professional architecture degree. Students can expect to deepen their architecture practice with environmental knowledge and expertise and inform their environmental training with their architecture background.

	FALL	SPRING	SUMMER	
1ST YEAR** † YSE MATRICULATION	ENV 553 Perspectives: Environmental Leadership	ENV Specialization Core (2/2)	ENV YSE MODs: Self to System; Science to Solutions (late summer)	
	ENV 511* Ecological Foundations for Env. Managers	ARCH / ENV Specialization Elective (2/3)		
	ENV 512* Microeconomics Foundations for Env. Managers	ARCH 4254B / ENV 643 Joint Degree Research Colloquium (recommended in first year)	ARCH 1062C Resources for Design Research	
	ENV 521* Physical Science Foundations for Env. Managers	ENV Professional Skills Modules (2/3)		
	ENV 522* Human Science Foundations for Env. Managers	ARCH / ENV Elective		
	ENV Specialization Core (1/2)	ARCH / ENV Elective		
	ARCH / ENV Specialization Elective (1/3)			
	ENV Professional Skills Modules (1/3)			
	TOTAL	15	15	0

\* YSE foundations courses may be waived

\*\* must apply to YSE in Fall of First (1st) Year

† 15 credits max during YSE semesters

(recommended)

	FALL	SPRING	SUMMER
2ND YEAR YSOA MATRIC.	ARCH Advanced Design Studio	ARCH Advanced Design Studio	ARCH Summer Travel Course (early summer)
	ARCH 3072A Design Research I	ARCH 3073B Design Research II	ENV Internship or Research Project (10–12 weeks)
	ARCH / ENV Specialization Elective (3/3)	ENV Capstone or Independent Project	
	ARCH / ENV Elective	ARCH / ENV Elective	
	TOTAL	18	18

	FALL	SPRING
3RD YEAR	ARCH 1121A Design Research III: Independent Studio Part 1	ARCH 1121B Design Research IV: Part 2 Independent Studio
	ENV Professional Skills Modules (3/3)	ENV Capstone or Independent Project
	ARCH / ENV Elective	ARCH / ENV Elective
	ARCH / ENV Elective	
TOTAL	15	15

CREDITS

MArch (54 required)	45
MEM (36 required)	30
Electives	24
(90 total required)	
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KEY CURRICULAR GLUE COURSES

MODs: Architecture Faculty, PhD Students  
YSE Internship / Research Project:  
Targeted Internships  
Joint-Degree Research Colloquium Course  
YSE Capstone: Co-Advisors with YSE / YSOA  
Electives: Updated Courselist

ADMIN

YSE Faculty Director: Karen Seto  
YSOA Faculty Director: Mae-ling Lokko  
YSE Program Coordinator: Asha Ghosh  
YSOA Program Coordinator: Jen Shin

YSOA YSE Elective

MARCH I + MESC or MFS is a four-year hybrid course and research path of study that is suitable for students who do not have a prior professional architecture degree. Students can expect to gain architecture foundations while pursuing their own environmental or forest research to merge these two domains during their course of study.

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CREDITS

MArch (96 required)	96
MEM (36 required)	30
Electives	12
(132 total required)	
<b>TOTAL CREDITS</b>	<b>138</b>

KEY CURRICULAR GLUE COURSES

MODs: Architecture Faculty, PhD Students  
Independent Research  
Joint-Degree Research Colloquium Course  
Electives

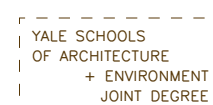
ADMIN

YSE Faculty Director: Karen Seto  
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FACULTY ADVISORS

Faculty research advisors play a key role in the MFS/MESC program. In addition to overseeing their scientific research, advisors collaborate with students to design and approve their unique course of study. Faculty provide guidance in selecting courses to support the design, execution, and communication of students' master's research and align with students' career goals. They also serve as a resource during the process of proposing and completing the master's thesis.

NOTE: Applicants should connect with potential advisors before applying to the program. When applying, applicants will be asked to submit the names of three faculty members with whom they are interested in working. Advisors will be selected from that submitted list upon admission to the program.



YSoA YSE Elective

MArch I + MESc or MFS is a four-year hybrid course and research path of study that is suitable for students who do not have a prior professional architecture degree. Students can expect to gain architecture foundations while pursuing their own environmental or forest research to merge these two domains during their course of study.

	FALL	SPRING	SUMMER																																		
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CREDITS

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(132 total required)	
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KEY CURRICULAR GLUE COURSES

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Joint-Degree Research Colloquium Course  
Electives

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YSoA YSE Elective

MARCh II + MESC or MFS is a three-year research based path of study that is suitable for students who already have a first professional architecture degree. Students can expect to deepen their research practice and merge the domain of the built environment with rigorous scientific research.

	FALL	SPRING	SUMMER
1ST YEAR* YSOA MATRIC.	ARCH Advanced Design Studio 9	ARCH Advanced Design Studio 9	ARCH 1062C Resources for Design Research 0
	ARCH 3072A Design Research I 3	ARCH 3073B Design Research II 3	ARCH Summer Travel Course (early summer) 3
	ARCH / ENV Elective 3	ARCH 4254B/ENV 643 Joint Degree Research 3	ENV YSE MODs: Self to System; 0
	ARCH / ENV Elective 3	Colloquium (recommended in first year) 3	Science to Solutions (late summer) 0
	ARCH/ENV Elective 3		
	TOTAL 18	TOTAL 18	TOTAL 3

\* Must apply to YSE in Fall of first year

2ND YEAR† YSE MATRICULATION	ENV 551A Mixed Methods for Social Science Research 3	ENV Thesis Research Credits 3	ENV Continue Thesis Research 0
	or	ENV MESC Formal Coursework (3/4) 3	
	ENV 550A Natural Science Research Methods 3	ENV MESC Formal Coursework (4/4) 3	
	ENV Thesis Research Credits 3	ARCH / ENV Elective 3	
	ENV MESC Formal Coursework (1/4) 3		
	ENV MESC Formal Coursework (2/4) 3		
	ARCH / ENV Elective 3		
	TOTAL 15	TOTAL 12	TOTAL 0

† 15 credits max during YSE semesters (recommended)

3RD YEAR†	ARCH 1121A Design Research III: Independent Studio Part 1 9	ARCH 1121B Design Research IV: Independent Studio Part 2 9
	ENV Thesis Research Credits 3	ENV Thesis Research Credits 3
	ARCH / ENV Elective 3	ENV YSE Research Colloquium 0
	TOTAL 15	TOTAL 12

† 15 credits max during YSE semesters (recommended)

CREDITS

MArch (54 Required)	45
MESC/MFS (36 Required)	30
Electives	18
(90 total required)	
TOTAL CREDITS	93

KEY CURRICULAR GLUE COURSES

MODs: Architecture Faculty, PhD Students  
Independent Research  
Joint-Degree Research Colloquium Course  
Electives

ADMIN

YSE Faculty Director: Karen Seto  
YSoA Faculty Director: Mae-ling Lokko  
YSE Program Coordinator: Asha Ghosh  
YSoA Program Coordinator: Jen Shin

FACULTY ADVISORS

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KEY CURRICULAR GLUE COURSES

MODs: Architecture Faculty, PhD Students  
 Independent Research  
 Joint-Degree Research Colloquium Course  
 Electives

ADMIN

YSE Faculty Director: Karen Seto  
 YSOA Faculty Director: Mae-ling Lokko  
 YSE Program Coordinator: Asha Ghosh  
 YSOA Program Coordinator: Jen Shin

FACULTY ADVISORS

Faculty research advisors play a key role in the MFS/MESC program. In addition to overseeing their scientific research, advisors collaborate with students to design and approve their unique course of study. Faculty provide guidance in selecting courses to support the design, execution, and communication of students' master's research and align with students' career goals. They also serve as a resource during the process of proposing and completing the master's thesis.

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MARCh I + MF is a four-year course based path of study that is suitable for students wishing to gain professional licensure in both architecture and forestry. This rigorous course of study is the most course-heavy with demanding requirements in both degrees.

MARCh II + MF is a three-year hybrid course and research path of study that is suitable for students who already have a first professional architecture degree. This unique course of study allows students with a background in architecture to augment their practice with rigorous forestry management expertise.

NOTE: The MF degree is accredited by the Society of American Foresters (SAF). Students pursuing the MARCh I/II + MF joint degree should coordinate with the MF Program Director, Mark Ashton, as well as the YSoA joint-degree Program Coordinator, Jen Shin, to plan out their 3-4 years on a case-by-case basis.

KEY CURRICULAR GLUE COURSES

ADMIN

MODs: Architecture Faculty, PhD Students  
Yale Forests, URI, ELTI, TFD,  
or independent research / internship  
Joint-Degree Research Colloquium Course  
YSE MF Capstone: Co-Advisors with YSE / YSOA  
Electives

YSE Faculty Director: Karen Seto  
YSOA Faculty Director: Mae-ling Lokko  
YSE Program Coordinator: Asha Ghosh  
YSOA Program Coordinator: Jen Shin  
MF Program Director: Mark Ashton



COURSES

Students of YSOA+E complete and integrate two rigorous masters programs. Graduates of the joint-degree program receive one of two accredited architectural degrees (MArch I or MArch II) and one of four environmental or forestry degrees (MEM, MEdS, MFS, MF) in one year less than would be required if each degree were pursued independently. Through their course of study, students gain expertise in cutting-edge approaches to the design of the built environment with the most current research on environmental science.

YALE SCHOOL OF ARCHITECTURE

- ARCH 1000C
- ARCH 1011A
- ARCH 1012B
- ARCH 1019C
- ARCH 1021A
- ARCH 1022B
- ARCH 1062C
- ARCH 1121A
- ARCH 1121B
- ARCH 2011A
- ARCH 2012B
- ARCH 2016B
- ARCH 2017C
- ARCH 2021A
- ARCH 2022B
- ARCH 2031A
- ARCH 3011A
- ARCH 3012B
- ARCH 3072A
- ARCH 3073B
- ARCH 4011A
- ARCH 4254B / ENV 643
- ARCH / ENV Specialization Elective
- ARCH Advanced Design Studio
- ARCH Advanced Studio
- ARCH Summer Travel Course

YALE SCHOOL OF THE ENVIRONMENT

- ENV 511
- ENV 512
- ENV 521
- ENV 522
- ENV 551A / 550A
- ENV 553
- ENV Capstone / Independent Project
- ENV Continue Thesis Research
- ENV Internship / Research
- ENV MEdS Formal Coursework
- ENV Professional Skills Modules
- ENV Specialization Core
- ENV Thesis Research Credits
- ENV YSE MODs
- ENV YSE Research Colloquium

ELECTIVES

Each YSOA+E cohort is trained to innovatively merge environmental science with architecture at the material, building, site, city, regional, and global scales. Harnessing the breadth and depth of expertise of both YSE and YSOA, students work side-by-side with faculty at the forefront of interdisciplinary practice and research. Depending on their chosen degree pathway, students may choose to focus their studies within two focus areas – Circular / Regenerative Building Material Cycles or Environmental Justice – while satisfying the requirements and specializations within their two degrees.

CIRCULAR / REGENERATIVE BUILDING MATERIAL CYCLES

- ARCH 4298B Agroecological Urban Constellations (Duran)
- ARCH 337 Field to Building (Lokko)
- ARCH 2229 Regenerative Building (Organschi)
- ARCH 2247 Soil Sisters (Lokko / Dyson)
- ARCH 1257 Trash (Davies)
- ARCH 2249A Bad Buildings: Decarbonization Through Reuse, Retrofit and Proposition (McNamara)
- ARCH 2236 Design Data Biology (Dyson)

ENVIRONMENTAL JUSTICE

- ARCH 4253b Labs and Landscapes of the Green Revolution (Acciavatti)
- ARCH 1248a Cartographies of Climate Change (Hsiang)
- ARCH 2245a Alt Development Workshop (McDermott)
- ARCH 3330b Feral Surfaces and Multi-species Architecture (Harrison)
- ARCH 3265 Destruction, Continuation, and Creation: Architecture and Urbanism of Modern Japan/ Architecture & Urbanism (Yoko Kawai)
- ARCH 1293b Story Building: Inclusive Design and Public Health (Sanders)
- ARCH 3322a Mutualism: Spatial Activism and Planetary Political Solidarity (Easterling)
- ARCH 4247 Difference and the City (Moore)

