

**Tentative 2008 Woods Hole Embryology Schedule – Version June 15, 2008**

**Week 1**

“average day”

9:00 – 10:30	lecture
10:30 – 11:00	break, quick lab work
11:00 – 12:00	“sweat box” discussion
12:00 – 1:30	lunch
1:30 – 6:00	lab
6:00 – 7:30	dinner
7:30 - ???	lab

Sat, 14 June		7:30 PM meet in Swope lobby
Sun, 15 June		9:30 AM All Courses Student Brunch 7:00 PM Reception & dinner – 2 <sup>nd</sup> floor Loeb
Mon, 16 June	Morning Lecture	John Gerhart: Key concepts in developmental biology
	Morning Lab	General orientation and MBL tour; Safety orientation
	Afternoon Lecture	Nipam Patel: Comparative Developmental Biology
	Afternoon Lab	Microscopy I (Andres Collazo and Paul Maddox)
	Chalk Talk	Andres Collazo and Paul Maddox– microscopy; Nipam – cameras and software
	Evening Lab	Toolmaking (Henry and Martindale); Microscopy II
Tues, 17 June	Lecture	Nicole King: Animal origins
	Afternoon Lab	Choanoflagellates & sponges 1
	Chalk Talk	
	Evening Lab	Choanoflagellates & sponges 2
Wed, 18 June	Lecture	Mark Martindale: Cnidarians and Ctenophores
	Afternoon Lab	Cnidaria 1 + Intro to injections (can be moved to morning if needed)
	Chalk Talk	
	Evening Lab	Cnidaria 2
Thurs, 19 June	Lecture	Bruce Bowerman
	Afternoon Lab	C. elegans 1
	Chalk Talk	Amy Maddox
	Evening Lab	C. elegans 2
Fri, 20 June	Lecture	Dave Sherwood
	Afternoon Lab	C. elegans 3
	Chalk Talk	MBL lecture
	Evening Lab	C. elegans 4
Sat, 21 June	Lecture	David Fitch
	Afternoon Lab	C. elegans 5
	Chalk Talk	Paul Maddox
	Evening Lab	C. elegans 6

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**Week 2**

Sun, 22 June	Morning	Student Choice
	Afternoon	Scavenger Hunt
	Evening	Group dinner
Mon, 23 June	Lecture	Nipam Patel: Intro to Arthropod Development
	Afternoon Lab	Flies / arthropod 1
	Chalk Talk	
	Evening Lab	Flies / arthropod 2
Tues, 24 June	Lecture	Trudi Schupbach: Maternal Effect
	Afternoon Lab	Flies/ arthropod 3
	Chalk Talk	Scott Fraser
	Evening Lab	Flies / arthropod 4
Wed, 25 June	Lecture	Eric Wieschaus: Early embryo patterning in Drosophila
	Afternoon Lab	Flies/ arthropod 5 (+ plankton tow??)
	Chalk Talk	Cassandra Extavour
	Evening Lab	Flies/ arthropod 6
Thurs, 26 June	Lecture	Iswar Hariharan
	Afternoon Lab	Flies/ arthropod 7
	Chalk Talk	
	Evening Lab	Flies/ arthropod 8
Fri, 27 June	Lecture	Paul Brakefield Butterfly wing patterning and evolution
	Afternoon Lab	Flies/ arthropod 9
	Chalk Talk	MBL lecture
	Evening Lab	Flies/ arthropod 10
Sat, 28 June	Lecture	Matt Ronshaugen: Thresholds and gene activation
	Afternoon Lab	Flies/ arthropod 11
	Evening	Show and tell

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**Week 3**

Sun, 29 June	All Day	Whale watching trip in Provincetown
Mon, 30 June	Lecture	Jon Henry & Dave Lambert: Spiralian development and larval life history strategies
	Afternoon Lab	Sea urchin 1
	Chalk Talk	Dave Lambert: Molluscs
	Evening Lab	Zoo: Cerebratulid
Tues, 1 July	Lecture	Dave McClay: Sea urchin development
	Afternoon Lab	Molluscs 1
	Chalk Talk	Paola Oliveri and Titus Brown - Gene regulatory networks
	Evening Lab	Sea urchin 2
Wed, 2 July	Lecture	Dan Rokhsar – genome analysis
	Afternoon Lab	Marine collection ( + boat trip?)
	Chalk Talk	Marianne Bronner-Fraser
	Evening Lab	Molluscs 2
Thurs, 3 July	Lecture	Richard Harland: Signaling in Amphibian development
	Afternoon Lab	Sea urchin 3
	Chalk Talk	Andres Collazo: ear development
	Evening Lab	Marine collection
Fri, 4 July	Afternoon	Parade
	Evening	Fireworks
Sat, 5 July	Lecture	Ray Keller
	Afternoon Lab	Frog lab 1
	Evening	Frog lab 2

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**Week 4**

Sun, 6 July	All Day	Student Choice
Mon, 7 July	Lecture	Judith Eisen - Development of zebrafish motoneurons
	Afternoon Lab	Frog lab 3
	Chalk Talk	
	Evening Lab	Frog lab 4
Tues, 8 July	Lecture	Didier Stainier
	Afternoon Lab	Frog 5
	Chalk Talk	
	Evening Lab	Frog 6
Wed, 9 July	Lab	Fish Lab 1 (9-noon)
	Afternoon Lecture	Alex Schier
	Afternoon/ evening Lab	Fish lab 2 (3:30-evening)
Thurs, 10 July	Morning lecture	Katsuma Dan Lecture - Julian Lewis: Modeling Segmentation
	Afternoon lab	Fish lab 3
	5:00	Soft ball game with Physiology Course and pizza
	Evening Lab	Fish lab 4
Fri, 11 July	Morning lab	Fish lab 3 (9-noon)
	Afternoon lecture	Sharon Amacher: Genetic approaches in zebrafish to explore early embryogenesis
	Chalk talk	MBL lecture
	Afternoon / evening lab	Fish lab 6 (3:30-evening)
Sat, 12 July	Morning lab	Fish lab 7 (9-noon)
	Afternoon lecture	Mike Shapiro – stickleback genetics & evolution
	Evening	Show and tell

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**Week 5**

Sun, 13 July	Morning & Afternoon	Student Choice
	Evening	Group Dinner: Student Created Fiesta
Mon, 14 July	Lecture	Lee Niswander: Limb development
	Afternoon Lab	Lab 1 Chick
	Chalk Talk	Federica Bertocchini: Early Chick Development
	Evening Lab	Lab 2 Chick
Tues, 15 July	Lecture	Paul Trainor: Face to Face: patterning and plasticity in craniofacial development, disease and evolution
	Afternoon Lab	Lab 3 Chick
	Chalk Talk	Clare Baker: placodes
	Evening Lab	Lab 4 Mouse
Wed, 16 July	Lecture	Richard Behringer: Mouse Genetics/Technology
	Afternoon Lab	Lab 5 Chick (with mouse available)
	Chalk Talk	
	Evening Lab	Lab 6 Mouse (with chick available)
Thurs, 17 July	Lecture	Terry Magnuson - Epigenetics
	Afternoon Lab	Lab 7 Chick (with mouse available)
	Chalk Talk	
	Evening Lab	Lab 8 Chick/mouse
Fri, 18 July		Lori Sussel: Pancreas development
	Afternoon lab	Lab 9 Chick / mouse
	Chalk talk	MBL lecture
	Evening Lab	Lab 10 Chick / mouse
Sat, 19 July	Lecture	Richard Behringer: Marsupials
	Afternoon lab	Lab 11 Chick / mouse
	Chalk Talk	
	Evening Lab	Zoo of bat, marsupial, corn snake, dragon lizard, Chick / mouse

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**Week 6**

Sun, 20 July	Evening	Student Group Dinner in Falmouth
Mon, 21 July	Morning lab	Ctenophore lab
	Afternoon Lecture	Alejandro Sanchez Alvarado: Embryogenesis, Regeneration and Stem Cells in the planarian <i>Schmidtea mediterranea</i>
	Chalk Talk	
	Evening Lab	Planaria
Tues, 22 July	Lecture	Bob Zeller: Ascidian Embryogenesis: Notochord and Nervous System Development
	Afternoon Lab	Ascidians 1
	Chalk Talk	Lionel Jaffe: Calcium waves in development
	Evening Lab	Annelids 1
Wed, 23 July	Lecture	Alexa Bely – Annelids
	Afternoon Lab	Ascidians 2
	Chalk Talk	
	Evening Lab	Collecting at the dock
Thurs, 24 July		Dennis Roop: Stem Cells & Therapeutic Potentials
	Afternoon Lab	Ascidians 3
	Chalk Talk	
	Evening Lab	Annelids 2
Fri, 25 July		
	Afternoon lab	Planaria
	Chalk talk	MBL lecture
	Evening Lab	Planaria
Sat, 26 July	Morning/Lecture	Course Review 11:00
	Afternoon lab	Show and tell 3:00
	Evening	<b>End of Course Party</b>
Sun, 27 July		<b>Departure</b>