

Color Theory Syllabus

Morning Session

Session	on Start		
	Introductions Instructor intro Attendee introductions Why are you here? What do you hope to learn? Do you have any special needs?		
	Housekeeping O Using the syllabus as a guide Rules for interruptions (cell phones verboten) How to use the handouts and presentation materials Note taking there will be a test at the day's conclusion		
	Review course objectives o Course goals o Overview of the day		
Color Identification			
	What color is this? (Hands-on #1) O Write color description and pass forward O Shuffle descriptions and pass out O Use description to identify color		
	How do people try to correct color in the real world O Roundtable slides O At the paint store O In the press room		
	Why do I respond to color the way I do?		

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o Inherited, learned, geographical factors, etc.

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	Does my eye have limitations? O Retinal fatigue O Color memory O Background effects One artists solution – Munsell
_	 Munsell's color description (words) Let's play Munsell (<i>Hands-on #2</i>)
Ц	Review & test
	Morning Break
Color	Definition – What is Color?
	Light o Spectrum & speed o Different lights = different energy o Illuminants
	Object Objects are reflectors
	What is metamerism (Hands-on #3)
	Observer Output How does the eye work Rods & cones How about an instrument?
	Color models O Additive -demonstrate with lights (<i>Hands-on #4</i>) O Subtractive -demonstrate with finger paint
	Review & test

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Lunch on your own

Class Reconvenes In One Hour!

Afternoon Session

Color Control		
	Density O What is it? O How do I use it?	
	L*a*b* o What is it? o How do I use it?	
	L*C*h° O What is it? O How do I use it?	
	Instrumental measurement (<i>Hands-on #5</i>) o Measure density (no difference) o Visual assessment (big difference) o Measure color L*a*b* (big difference)	
	Which method is best? O MacAdam's ellipsoids Introduce CMC Introduce CIE94 The eye vs. L*a*b*, L*C*h°, CMC, CIE94 Screen grab of each tolerance	
	Review & test	

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Afternoon Break

Color Management			
	The artists creation o Follow the color from creation to completion		
	1		
	Ends in production		
	o Vehicle paint		
	o Interior plastic		
	o Interior fabric/leather		
	o Printed displays		
	o Printed advertisement		
	Measured how?		
	o Different instruments, different answers (<i>Hands-on #6</i>)		
	Compare readings from hands-on #5		
	 Different instruments, different ill/obs, different results 		
	Measure vs. the eye		
	o Limitations of the eye		
	·		
Color	Manufacturing		
Ч	Why doesn't it match?		
	o Process variation		
	o Raw materials		
Ч	Application methods		
	o Real world situations		
	Customers issues		

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Wrap-up

- Review & Test
- Getting HELP from X-Rite
 - o Use the web:

http://www.xrite.com/contact/ContactUs.asp

o Send E-Mail to:

mailto:CASupport@xrite.com

o Try the Bulletin Board:

http://www.xrite.com/helpdesk/bulletinboard.asp

o Contact Customer Service by phone:

888-826-3042 (US & Canada only)

o Send a Fax to:

616-534-0723

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