

# ARIZONA STATE UNIVERSITY GENERAL STUDIES COURSE PROPOSAL COVER FORM

# **Course information:**

Academic Unit	SHARCS		Department <u>Interdisciplina</u>	ry Arts & Performance
Subject <u>IAP</u>	Number	294	Title Music, Mind, and Culture	Units: <u>3</u>
Is this a cross-list If yes, please iden		No		
Is this a shared co Course description		Yes	If so, list all academic units offering this cour	se <u>See below</u>
We will request to				
Requested designat			•	
Note- a <u>separate</u> pri Eligibility:	oposai is requir	ea for eacn	designation requested	
•	red courees m	uet hava co	mpleted the university's review and approval proce	e e
			s courses, contact the General Studies Program Offi	
Area(s) proposed				
requirement and r core areas simulta	nore than one a meously, even i	awareness a if approved	han one core or awareness area. A course may satisfice requirements concurrently, but may not satisfy for those areas. With departmental consent, an appearal Studies requirement and the major program o	requirements in two proved General Studies
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Checklists for ger		_		
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	l Critical Inquir s core courses		ses (L)	
			ications core courses (CS)	
<ul> <li>Humanities,</li> </ul>	Fine Arts and	Design core	courses (HU)	
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Contact inform	ation:			
	v Moon		Phone (602) 543-61	67
lameDr. Barr	, 110011			
	, 1120011		E-mail: barry.moon@	
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#### Arizona State University Criteria Checklist for

### **HUMANITIES, FINE ARTS AND DESIGN [HU]**

#### **Rationale and Objectives**

The humanities disciplines are concerned with questions of human existence and meaning, the nature of thinking and knowing, with moral and aesthetic experience. The humanities develop values of all kinds by making the human mind more supple, critical, and expansive. They are concerned with the study of the textual and artistic traditions of diverse cultures, including traditions in literature, philosophy, religion, ethics, history, and aesthetics. In sum, these disciplines explore the range of human thought and its application to the past and present human environment. They deepen awareness of the diversity of the human heritage and its traditions and histories and they may also promote the application of this knowledge to contemporary societies.

The study of the arts and design, like the humanities, deepens the student's awareness of the diversity of human societies and cultures. The fine arts have as their primary purpose the creation and study of objects, installations, performances and other means of expressing or conveying aesthetic concepts and ideas. Design study concerns itself with material objects, images and spaces, their historical development, and their significance in society and culture. Disciplines in the fine arts and design employ modes of thought and communication that are often nonverbal, which means that courses in these areas tend to focus on objects, images, and structures and/or on the practical techniques and historical development of artistic and design traditions. The past and present accomplishments of artists and designers help form the student's ability to perceive aesthetic qualities of art work and design.

The Humanities, Fine Arts and Design are an important part of the General Studies Program, for they provide an opportunity for students to study intellectual and imaginative traditions and to observe and/or learn the production of art work and design. The knowledge acquired in courses fulfilling the Humanities, Fine Arts and Design requirement may encourage students to investigate their own personal philosophies or beliefs and to understand better their own social experience. In sum, the Humanities, Fine Arts and Design core area enables students to broaden and deepen their consideration of the variety of human experience.

Revised October 2008

Proposer: Please complete the following section and attach appropriate documentation.

		ASU - [HU] CRITERIA	
		ES, FINE ARTS AND DESIGN [HU] courses must meet <i>either</i> 1, 2, or ria under 4 in such a way as to make the satisfaction of these criteria A CE SUBSTANTIAL PORTION of the course content.	
YES	NO		Identify Documentation Submitted
		1. Emphasize the study of values, of the development of philosophies, religions, ethics or belief systems, and/or aesthetic experience.	
		2. Concerns the comprehension and interpretation/analysis of written, aural, or visual texts, and/or the historical development of textual traditions.	Syllabus, required texts tables of contents
		3. Concerns the comprehension and interpretation/analysis of material objects, images and spaces, and/or their historical development.	•
		4. In addition, to qualify for the Humanities, Fine Arts and Design designation a course must meet one or more of the following requirements:	
		a. Concerns the development of human thought, including emphasis on the analysis of philosophical and/or religious systems of thought.	Syllabus, required texts tables of contents
		<b>b.</b> Concerns aesthetic systems and values, literary and visual arts.	
		c. Emphasizes aesthetic experience in the visual and performing arts, including music, dance, theater, and in the applied arts, including architecture and design.	Syllabus, required texts tables of contents
		d. Deepen awareness of the analysis of literature and the development of literary traditions.	
		THE FOLLOWING ARE NOT ACCEPTABLE:	
	<i>y</i>	Courses devoted <b>primarily</b> to developing a skill in the creative or performing arts, including courses that are <b>primarily</b> studio classes in the Herberger College of the Arts and in the College of Design.	
	4 -	Courses devoted primarily to developing skill in the use of a language — However, language courses that emphasize cultural study and the study of literature can be allowed.	
		Courses which emphasize the acquisition of quantitative or experimental methods.	
		Courses devoted primarily to teaching skills.	

# Humanities and Fine Arts [HU] Page 3

Course Prefix	Number	Title	Designation
IAP	294	Music, Mind, and Culture	

Explain in detail which student activities correspond to the specific designation criteria. Please use the following organizer to explain how the criteria are being met.

Criteria (from checksheet)	How course meets spirit (contextualize specific examples in next column)	Please provide detailed evidence of how course meets criteria (i.e., where in syllabus)
2	The primary concern of this course is the interdisciplinary study of music via texts and listening from historical and contemporary viewpoints. For the sake of this application, and according to our course, music is considered both a textual and aural tradition.	The entire syllabus points towards these concerns.
4a	Almost every aspect of the course involves the study of human thought, especially in the realms of philosophies of sound and music. In addition, there is a strong emphasis on the perception of sound and music from a variety of disciplinary studies.	Weeks 7 and 8 are involved with various studies in the psychologies and philosophies of sound.  Weeks 9 and 10 involve the study of philosophies of music creation.  Weeks 11 and 12 involve the study of philosophies of musics in reference to the various cultures from which they originate.
4c	In addition to discussions of aesthetics of sound and music in texts, audio and video examples of soundscape, musical performances, and interviews of musicians gives insight into a broad range of aesthetics involved in the production of music and sound art throughout the world.	Week 3 introduces concepts of musicology, which involves itself with the reasons people make music the way they do. The entire course involves listening to a wide variety of sounds from the environment and music from diverse cultures, informed by a broad range of aesthetic concerns.

# ASU West -School of Humanities. Arts and Cultural Studies (INTERDISCIPLINARY ARTS & PERFORMANCE)

ARTHUR J. SABATINI, Associate Professor of Performance Studies and Barry Moon, Associate Professor of Music

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IAP 294 Spring, 2014 Syllabus: Music, Mind and Culture

#### A. COURSE DESCRIPTION

Music, Mind and Culture is an interdisciplinary live and on-line course for undergraduates. It explores how music and the general subjects of sound, noise, silence, hearing/listening are approached interdisciplinarily through the arts, humanities, social and natural sciences. As the course will show, in contemporary scholarship, study of music crosses different academic fields and disciplines, including: musicology and music history, sociology and anthropology, cultural studies, religion, psychology, biology, ecology, neuroscience, mathematics, physics, technology and engineering, business and economics, philosophy, and aesthetics. Throughout the course, students will be introduced to how music/sound/noise/silence has been the object of scholarly research, analysis and interpretation. Lectures, readings, assignments and guest speakers from SHARCS, SBS and MNS faculty will accentuate interdisciplinary approaches and methods and prepare students for New College, upper division courses.

Thematically, the course presents an interdisciplinary inquiry that explores the interrelationships among: 1) disciplinary and interdisciplinary classifications and the study of sound, music, environments and human perception, thought and experience; 2) individual, social transcultural and intercultural aspects of the creation, performance, uses, functions and reception of music and sound/noise/sonic art in the contexts of human psychology/biology/evolution; 3) varied historical, humanistic, sociological, anthropological, scientific/technological considerations of 'mind, music, culture issues.'

Students will read, listen and respond to selected texts and musical and video samples in Power Point format on Blackboard. Topics presented in lectures, etc. will be monitored and graded through discussion board entries, quizzes, exams and essays.

### B. GOALS and OBJECTIVES

- 1) To understand the concepts, methods and applications of interdisciplinary studies;
- 2) To identify the use of an interdisciplinary studies to approach the topic of 'music, mind and culture';
- 3) To become aware of key texts, concepts, thinkers, materials and methods that explore 'music, mind and culture' from an interdisciplinary perspective;
- 4) To develop a critical lexicon for considering issues of music, mind and culture;
- 5) To write effectively about 'music, mind and culture' from an interdisciplinary perspective;
- 6) To develop critical listening abilities informed by interdisciplinary approaches
- 7) To become aware of interdisciplinary studies at ASU's New College of Interdisciplinary Arts and Sciences.
- 8) Develop academic skills including, the use of library and on-line reference sources,

### and essay writing techniques

### C. REQUIRED TEXTS

- Clayton, Martin and T. Herbert, R. Middleton, eds. *The Cultural Study of Music: A Critical Introduction*. NY; London: Routledge, 2003. ML3845.C 85 2003. (selections)
- Levitin, Daniel J. *This Is Your Brain on Music: The Science of a Human Obsession*. Penguin Books, 2006.
- Hargreaves, David, et. al. *Musical Imaginations: Multidisciplinary Perpsectives on Creativity, Performance and Perception*, Oxford: Oxford U Press, 2012. ML3830

  .M9825 2012eb Online An electronic book accessible through the World Wide Web; click to view (selections)
- Manning, Peter. <u>Electronic and computer music</u> Oxford; NY: Oxford University P, 2004. ML1380 .M36 2004eb Online (selections)
- Sterne, Jonathan. *The Audible Past: Cultural Origins of Sound Reproduction* Durham, NC: Duke University Press, 2003. <u>TK7881.4 .S733 2003</u> (selections)

And selected readings in course packets, books and on-line books from ASU Library.

There will also be a weekly listening, video, or online requirement with examples available through ASU iTunes Radio or posted on Blackboard. .

### D. COURSE REQUIREMENTS

- 1. Three Papers 3 pages (minimum): <u>Critical analysis</u> of readings, concepts, arguements, assignments etc. based on course texts, lectures, discussions and listening samples. Prompts.
- 2. Final Paper 8 pages (minimum). Research paper with at least four sources that critically represents and assesses an interdisciplinary music, mind, culture issue.
- **3. Short papers, In-Class Presentations:** Students will be expected to write 1-2 page papers and deliver brief presentations on readings, lectures, listening samples. Includes personal response and musical history statement.
- **4. Participation:** includes preparation for classes and contribution to class discussions and activities.
- 5. Quizzes, Exams on readings. Grades are part of participation and attendance record.
- **6. Attendance:** Full attendance required. Students are responsible for all assignments on **due date**, except by arrangement with instructor. Up to one letter grade deducted for missing three classes.

## E. GRADING: The following percentages will be assigned

Three 3 page Papers (avg. total 15% each)	45%
Final Paper	25%
Short papers; In-class Presentations	20%
Quizzes/Exams/Participation/Attendance	10%

F. WEEK/DATE TOPICS, READINGS, ASSIGNMENT

NOTE: LOOK AHEAD. Look for on-line readings and listening assignments. **READ** ALL OF THE ASSIGNED MATERIAL FOR EACH CLASS. Class format:

lecture/discussion with assigned presentations, guest lectures.

Week 1 Part 1: Disciplines, Interdisciplinarity, New College Introduction/Syllabus/Overview/Course Requirements

1/16 Interdisciplinarity and 'Music, Mind and Culture'/Basic concepts

Discipline histories, sub-disciplines, methods, research

Week 2 On interdisciplinarity

2/6

1/21 What is interdisciplinarity? Some definitions, examples

1/23 Overview of Interdisciplinary Studies at ASU (SHARCS, MNS, SBS)

READ: "A Taxonomy of Interdisciplinarity," Julie Thompson Klein

and "Interdisciplinary Cases and Disciplinary Knowledge," Wolfgang Krohn from *The Oxford Handbook of Interdisciplinarity*, ed, Robert Frodeman, et al.,

Oxford, NY: Oxford U Press, 2010. BD255.094 2010

Week 3 Music and Interdisciplinary Studies (1)

1/28 Musicology and Interdisciplinarity sub-fields

**READ:** Cook, Nicholas. "What is Musicology?" (article)

1/30 Overview with selections from www.musicstudies.org

journal of interdisciplinary music studies

Musical Example: Approaching "the blues": musical form: 12 12—bar structure, chords; socio-historical: slavery, African-American experience; blues, emotion, performance, response (**READ**: Levitan,

TIYBOM, Chapt 6—"Music, Emotion, Reptilian Brain" 169-192)

Week 4 Mind, Music and Interdisciplinary Studies (2)

2/4 **READ:** Levitan, *TIYBOM*, Intro and Chapts 1,2,3, to p. 110

con't, Levitan. "Musicianship: How and where in the brain" in

Hargeaves, pp. 285-296...

Musical Examples from Levitan references

Week 5 Culture, Music and Interdisciplinary Studies (3)

2/11 SBS (ASU) Disciplines & Music. Ethnomusicology.

2/13 **READ:** Firth, "Analyzing Rock Music" Geertz, Clifford, "The Growth of Culture and the Evolution of Mind" from *The Interpretation of Cultures*;

Feld, Steven. Sound and Sentiment: Birds, Weeping, Poetics, and Song in

Kaluli Expression: Durham: Duke University Press, 2012.

An electronic book accessible through the World Wide Web; click to view

<u>Musical Examples</u>: tribal, ethnic, folk, ritual/religious traditional music (Asian, Native American, etc. (Smithsonian Folk Music Collection: ASU <u>Smithsonian</u> Global Sound for Libraries)

Critical Analysis Paper Due: readings, concepts, arguments, listening

Week 6	THE MUSICAL INSTRUMENT MUSEUM
2/18	Musical Instruments as representative interdisciplinary subject
	Class Visit and Class
2/20	Presentations 1 – 2 page Musical Instrument Paper

	ntations 1 – 2 page Musical Instrument Paper
	ruary 25 & 27 March 4 & 6: Nature, Sound Soundscapes
Lecture Topics	1. SOUND is before Music: physics to biology & life sciences,
	acoustic ecology; animal & human anatomy and evolution;
	2. Approaching the variety of sound in nature and in the human
	experience via quantification, measurement, pre-technology;
	3. Natural sound to /industrial/modern soundscapes;
	4. Hearing, Music and Human Brain (Levitan)
New College	Lara Ferry, Associate Professor "The Science of Human Hearing";
Faculty	Chad Johnson, MNS ecology/evolution; Richard Lerman, IAP
Interdisciplinarity	Sciences and physics of sound/nature, including geography/
Foci	landscapes/seascapes - birds, animals, undersea, acoustics;
	musicological and acoustic analysis and significance.
Primary	Levitan, This is Your Brainas assigned
Readings	Acoustics and psychoacoustics [electronic resource] / David M.
	Howard and Jamie Angus. Amsterdam; London: Focal, 2006.
	Schafer, R. Murray. The tuning of the world / R. Murray
	Schafer. NY: Knopf, 1977. Chap. 1 ML3805.S3 "Soundscape."
	Howard, David M. and Jamie Angus. Acoustics and
	psychoacoustics [electronic resource]. BF251 Online
	Rothenberg, David. The book of music and nature: an
	anthology of sounds, words, thoughts. Middletown, Conn.:
	Wesleyan U Press, 2001. ML3845 .B614 2001 (selections)
Secondary	Rothenberg, David. Why birds sing: a journey through the
Readings	mystery of bird song. NY: Basic Books, 2005.QL698.5.R68
	2005; Thompson, Emily Ann. The soundscape of modernity:
	architectural acoustics and the culture of listening in America.
	1900- Cambridge, Mass.: MIT, 2002.
Audio/Video/	Listening: simple tones, noise to more complex systems (city,
Powerpoint	ocean-insects, icebergs, Lerman ants, etc; musicological vs.
I-tunes:	physical analysis. Levitan chart p.23. Demonstration of
online sources	psychoacoustic and sonic phenomena - range of hearing, critical
	band, noise vs. tone, etc. Recordings and discussion of various
	acoustic environments.
	Sonic illustrations of concepts from "Acoustics and
	psychoacoustics" text.

# (Week 9 3/11 3/13 Spring Break)

WEEKS 9 – 10 M	Iarch 18 & 20 March 25 & 27 Humans Making Music
Lecture Topics	1. Organizing sound to music interculturally (environment & natural
	sounds (birds) - playing, performing, tuning systems, instruments)
	2. Music/sound from speech - song & the body (dance), rhythm, drums

	3. Evolutionary, sociological and anthropological theories music
	making; ethnomuicology
	4. Histories and the Changing Concept/Uses of Music worldwide
New College	SBS – Sociology, Andrew Kirby; Jeffrey Kennedy, IAP
Faculty	
Interdisciplinary	Sound, Music and the Human Experience – Music as interrelated with
Foci	social life, myth, religion –socio-cultural, psychological and
	neuroscience study
Primary	Clayton, Martin and Trevor Herbert, Richard Middleton, eds. The
Readings	Cultural Study of Music: A Critical Introduction. NY; London:
	Routledge, 2003. ML3845.C 85 2003.
	Levitin, Daniel J. This Is Your Brain on Music: The Science of a
	Human Obsession. Penguin Books, 2006.
Secondary	
Readings	How musical is man? [electronic resource] / John Blacking.
	Blacking, John. Seattle: U of Washington Press, 1974 (2000)
Audio/Video/	Videos of musicians in various contexts performing and discussing
Powerpoint	their art.
I-tunes;	
online sources	
Assignment	2-page written paper describing recorded soundscape according to
	criteria presented in class and texts. Assessed according to
	demonstration of aural acuity, imagination, and ability to tie in
	relevant reading and lecture materials.

WEEKS 11 – 12 A	April 1 & 3 April 8 & 10 What is Music For?
<b>Lecture Topics</b>	1. Theories of Music from Around the World; From Various Disciplines
	2. Music and extra-musical contexts: healing, worship, dance, theater, myth,
	ritual, etc. music is not only itself; music always in cultural contexts –
	3. Modern and Contemporary socio-economics, industries of music
	Music, Communications, technology
ent.	4. Music – nationalism, cultural identity
New College	SBS 'Music & Communications,' Greg Wise
Faculty	
Interdisciplinary	Focus: Intercultural History and the Changing Concepts/Myth
Foci	Philosophy/Religion, folklore. Performance Studies.
Primary	Clayton, Martin and T. Herbert, R. Middleton, eds. The Cultural Study of
Readings	Music: A Critical Introduction. NY; London: Routledge, 2003. ML3845.C

	85 2003. Selected readings
Secondary Readings	Ellen Basso, A Musical View of the Universe: Kalapalo myth and ritual performances Philadelphia: U of Pennsylvania Press, 1985.
Audio/Video/	Videos of rituals, worship, dance, theater, etc. where music plays a key role.
Powerpoint	Critical Analysis Paper Due: readings, concepts, arguments, listening
I-tunes;	
online sources	

WEEKS 13 – 14	April 15 & 17 April 22 & 24 Sound, Music, Noise, Acoustics, Technology
Lecture Topics	1. 20 <sup>th</sup> /21 <sup>st</sup> century music making – early technology: magnetic tape,
	recording technology, broadcast, radio, etc.
	2. Electronic and computer sound technology; sound engineering
	3. Sound, music and film, architecture, urban cultures.
	4. Making Popular music today and the Future of Music;
	Internationalization
New College	Barry Moon,
Faculty	
Interdisciplinary	Acoustics, economics, music, technology and computers, architecture,
Foci	
Primary	Russolo, Luigi. The Art of Noises, (selection)
Readings	Manning, Peter. Electronic and computer music Oxford; NY: Oxford U
	Press, 2004. ML1380 .M36 2004eb Online Selected articles.
	Sterne, Jonathan. The Audible Past: Cultural Origins of Sound
	Reproduction Durham, NC: Duke University Press, 2003. TK7881.4.S733
	2003
,	
Secondary	Greene, Paul D. and Thomas Porcello, eds. Wired for Sound Engineering
Readings	and Technologies in Sonic Cultures. Middletown, Conn.: Wesleyan U.
8-	Press, 2005 electronic resource.:ML3545 .W57 2005eb Online
Audio/Video/	Intonarumori recording. Live Performance.
Powerpoint	Samples of early recording technologies to the present. Famous Studios.
I-tunes and	Moog,
online sources	Tom Dowd & the Language of Music:
	http://www.thelanguageofmusic.com/
	Excerpt: http://www.youtube.com/watch?v=iKPooc-ImiM
أنسب والمساد و	

WEEKS 15 – 16 Music and Creati	April 29 – May 1 vity; Music, Medicine Brain Research
Lecture Topic	Creativity as interdisciplinary topic     Musical training and musicianship; listing     Intercultural Approaches to Musical Creativity     "Communicative Musicality"
New College Faculty	
Interdisciplinary Foci	Psychology, communcations, cognitive sciences, music history, biogrraphy/autobiography "Mozart" & the musical genius
Primary Readings	Levitan, <i>This is Your Brain</i> "The Music Instnct"  Trevarthen, Colwyn. "Communicative Musicality: The Human Impulse to Create and Share Music" in <i>Musical Imaginations: Multidisciplinary Perpsectives on Creativity, Performance and Perception</i> , David Hargreaves et. al. Oxford: Oxford U Press, 2012. ML3830.M9825 2012eb Online An electronic book accessible through the World Wide Web; click to view
Secondary Readings	Coleman, Ornette You-Tube: <a href="http://www.youtube.com/watch?v=8CoPGDfMWFc">http://www.youtube.com/watch?v=8CoPGDfMWFc</a> and <a href="http://www.youtube.com/watch?v=WdqRfHdbnXE">http://www.youtube.com/watch?v=WdqRfHdbnXE</a> Blanning, Tim. <i>The Triumph of Music</i> . Harvard U. Press, 2009.
Audio/Video/ Powerpoint I-tunes; online sources	Brain activity measurement and ranking value of music: <a href="http://www.zlab.mcgill.ca/supplements/science_2013.php?247959195">http://www.zlab.mcgill.ca/supplements/science_2013.php?247959195</a>

Week 16
4/29 Proposal and Draft of Final Paper due.
5/1 Final remarks

# Tables of Contents of Textbooks used in IAP294 Music, Mind and Culture

Clayton, Martin and T. Herbert, R. Middleton, eds. *The Cultural Study of Music: A Critical Introduction*. NY; London: Routledge, 2003.

Introduction Music Studies and the Idea of Culture RICHARD MIDDLETON

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- 2 Musicology, Anthropology, History 31 GARY TOMLINSON
- . 3 Music and Culture: Historiographies of Disjuncture 4 5 PHILIP V. BOHLMAN
- . 4 Comparing Music, Comparing Musicology MARTIN CLAYTON
- 5 Music and Social Categories 6 9 JOHN SHEPHERD
- 6 Music and Mediation: Toward a New Sociology of Music 8 0 ANTOINE HENNION
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- . 17 Music as Performance 204 NICHOLAS COOK

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- 25 Globalization and the Politics of W orld Music 297 MARTIN STOKES
- . 26 Music and the Market: The Economics of Music in the Modern World 309 □DAVE LAING

References 321 \( \text{Notes on Contributors Index 361} \)

# Levitin, Daniel J. *This Is Your Brain on Music: The Science of a Human Obsession*. Penguin Books, 2006.

This Is Your Brain On Music Introduction

I Love Music and I Love Science—Why Would I Want to Mix the Two?

1. What Is Music?

From Pitch to Timbre

2. Foot Tapping

Discerning Rhythm, Loudness, and Harmony

3. Behind the Curtain

Music and the Mind Machine

4. Anticipation

What We Expect From Liszt (and Ludacris)

5. You Know My Name, Look Up the Number

How We Categorize Music

6. After Dessert, Crick Was Still Four Seats Away from Me

Music, Emotion, and the Reptilian Brain

7. What Makes a Musician?

Expertise Dissected

8. My Favorite Things

Why Do We Like the Music We Like?

#### 9. The Music Instinct

Evolution's #1 Hit

Appendices

Bibliographic Notes

Acknowledgments

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# Hargreaves, David, et. al. Musical Imaginations: Multidisciplinary Perpsectives on

### Creativity, Performance and Perception, Oxford: Oxford U Press, 2012.

1. Explaining musical imaginations: Creativity, performance and perception, *David Hargreaves, Raymond MacDonald & Dorothy Miell* 

#### Perspectives from musicology, sociology, and ethnomusicology

- 2. Creativity in performance, Eric Clarke
- 3. Imagination feeds memory: Exploring evidence from a musical savant using zygonic theory, *Adam Ockelford*
- 4. Creativity as a social fact, Simon Frith
- 5. Musical creativity as social agency: Composer Paul Hindemith, *Ian Sutherland with Tia De Nora*
- 6. Imagining creativity: An ethnomusicological perspective on how belief systems encourage or inhibit creative activities in music, *Juniper Hill*

#### Perspectives from cognitive, social, and developmental psychology

- 7. Musical materials or metaphorical models? A psychological investigation of what inspires composers, *Shira Lee Katz & Howard Gardner*
- 8. Spreading activation and dissociation: A cognitive mechanism for creative processing in music, *Emery Schubert*
- 9. Life-events, emotion, and reason in the creative process in art music, *Vladimir Kone?ni*
- 10. Imagination and creativity in music listening, *David Hargreaves, Jonathan James Hargreaves & Adrian North*
- 11. Creativity in singing: Universality and sensitive developmental periods?, *Annabel Cohen* **Perspectives from socio-cultural psychology**
- 12. Digital tools and discourse in music: The ecology of composition, Goran Folkestad
- 13. Troubling the creative imaginary: Some possibilities of ecological thinking for music and learning,  $\it Margaret Barrett$
- 14. Organ improvisation: Edition, extemporisation, expansion and instant composition, *Karin Johansson*
- 15. Communication, collaboration and creativity: How musicians negotiate a collective 'sound', *Karen Littleton & Neil Mercer*
- 16. Improvisation as a creative process within contemporary music, *Raymond MacDonald, Graeme Wilson & Dorothy Miell*

#### **Perspectives from neuroscience**

- 17. Communicative musicality: The human impulse to create and share music, *Colwyn Trevarthen*
- 18. Musicianship how and where in the brain?, Mari Tervaniemi
- 19. Recreating speech through singing for stroke patients with non-fluent aphasia, *Bradley Vines*
- 20. Shared affective motion experience (SAME) and creative, interactive music therapy, *Istvan Molnar-Szakacs, Vanya Green Assuied & Katie Overy*
- 21. Enhancing imaginative expression in the performing arts with EEG-neurofeedback, *John Gruzelier*
- 22. Musical imagery and imagination: The function, measurement and application of imagery skills for performance, *Terry Clark, Aaron Williamon & Aleksandar Aksentijevic*

### Perspectives from education, psychiatry, and therapy

23. The call to create: Flow experience in music learning and teaching, Lori A. Custodero

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