## **Contents**

Prefac	ce	ix
$\mathbf{E}$	ducation discrete A. Quigley	1
	Developmental Thinking	4
	The Dynamics of Change: The Basics of Developmental Education	7
	The Fitchburg Model	14
2. A	xioms of Developmental Learning and Instruction obert M. Hashway	23
	Developmental Thinking and Learning Models	24
	ognition and Developmental Education imberly Kinsler and Andrew Robinson	53
	The Nature of Academic Competence	54
	Moderators of Competence	57
	Methodological Approaches	66
	Feuerstein's Instructional Enrichment Model	67
	Palinesar and Brown's Reciprocal Teaching of Reading	70
	Scardamalia and Bereiter's Procedural Facilitation of Writing	72
	Schoenfeld's Approach to Mathematics Instruction	74
	Comments and Conclusions	76
E	ostering Student Learning and Development through	
C	harles S. Claxton	85
	Knowledge as Social Construction	86
	Student Learning Styles	89
	Alternative Ways of Knowing	92
	Teaching Models	97
	ogram and Course Design Guidelines Obert M. Hashway	109
	Philosophy and Development Process	110

i	Contents
The Structure of Training	116
Summary	124
6. The Learning Center from 1829 to the Year 2000 and Beyond	
L. Scott Lissner	121
Learning Centers: Past and Present	129
The Learning Center Conceived	137
Comprehensive Systems	149
7. College Learning Assistance Centers: Places for Learning William G. White, Jr., and Mary Lee Schnuth	155
Evolution of Learning Assistance Centers	155
Comprehensive Components	158
Learning Assistance Center Services	160
College Learning Assistance Centers of the Future	166
8. College Learning Assistance Centers: Spaces for Learning William G. White, Jr., Barney Kyzar and Kenneth E. Lane	179
College and University Planning	179
Planning the Learning Assistance Center	182
Conclusion	192
9. Stress and the Developmental Student	
George H. Roberts	197
Classification of Developmental Students	198
What Is Stress?	199
The Academic Dimension of Stress	206
The Personal Dimension of Stress	208
Stress and the Health of Developmental Students	209
Implications for Student Personnel Services	210
10. Developmental Mathematics  Joan M. Dodway	217
11. Reading as "Big Business" to Developmental Education Gwendolyn Trotter	233
Issues and Directions for Reading in Developmental Education	241
Higher-Order Thinking Skills	244
Competencies in Reading Minimum and Maximum Skills	s 247

~~~	4 ~~	10

Contents	vii
Reading Instruction as Process	248
Collaboration for Universities/Business/Community	249
State of the Art Developmental Reading Strategies and Materials	250
Reading Agenda for the Twenty-First Century	252
12. Developmental Reading in College	
Robin W. Erwin, Jr.	261
Definitions	264
Review of Research Findings with General Populations	265
Research Findings with Developmental Readers	269
Conclusions from Research Findings	270
Current Practices in the Delivery of Critical Reading Instruction for Developmental Readers	271
13. Effective Counseling	
Cynthia Jackson Hammond	279
Locus of Control	288
Summary	296
14. Student Retention and Attrition in College	
Patricia Hawkins Rogers	305
Retention and Attrition Rates in College	306
Retention and Attrition Theories	307
College Success Studies	310
Nonacademic Variables	314
Conclusions and Recommendations	318
15. The Developmental Educator's System of Values	
Andolyn V. Brown	329
Summary	332
16. Research in Developmental Education	
Kimberly Kinsler and Andrew Robinson	335
Research and Evaluation: Goals and General Principles	336
Types of Research	341
Conducting Research	344
Validity and Bias in Developmental Research	348
Research Directions in Developmental Education	353

Selected Bibliography	357
Author Index	363
Subject Index	379
About the Editor	381
List of Contributors	383

viii

Contents