## Faculty Credential

**Justified with Other Relevant Qualifications**

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| **Name:**  | Michael Brown |
| **Course Information:** | **BME5411 : Biomedical Physiology and Engineering II** |
| **Degree (s):**  | **B.S. Biology, University of Notre Dame, 1982; Ph.D. Biochemistry and Molecular Biology, University of Miami, 1987, M.D., 1989, University of Miami School of Medicine** |

## Course Objectives

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| **Name:**  | **BME5411 : Biomedical Physiology and Engineering II**Dr. Brown worked University of Miami and Bascom Palmer Eye Institute for approximately nine years.  He worked in such diverse areas as the Retrovirology Laboratory, where he studied drug resistance of the Human Immunodeficiency Virus (HIV) to Azidothymidine, at Bascom Palmer Eye Institute, where he studied retinitis pigmentosa, and at the University of Miami School of Medicine where he studied endocrine abnormalities.  His clinical research experience includes working at Baptist Hospital coordinating clinical trials in diabetes as well as consulting with various South Florida companies such as World Medical Manufacturing and Medtronic, where he monitored clinical trial progress as well as developed and initiated clinical protocols in both the United States and Europe.  He also served as both Chief Scientific Officer and Vice President of Clinical and Regulatory affairs for Bioheart, Inc. for three years.  During his tenure at Bioheart, the company initiated FDA approved trials in stem cell therapy for the treatment of Heart Failure caused by myocardial infarction. Dr. Brown holds three degrees (BS, PhD and MD) in medically related fields, and has many years of teaching students in biomedical engineering and supervising Senior Design projects. He has experience working in basic research, clinical research and the medical device industry for many years. He has taught basic physiology of the nervous system and supervised Senior Design Projects to engineering students since 2003 and won three teaching awards while at FIU. |
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